ATTACHMENT 2
AIRNAV CONTRACTORS DATA REQUIREMENTS (CDRL) LIST

CDRL #	Deliverable	Acronym	Delivery Schedule (in calendar days)	Government Comments Due Within	Period for Final Delivery After Comments Received
A001	Contractor Performance Report	CPR	Included in each Monthly Status Report.	-	-
A002	Contractor Work Breakdown Structure	CWBS	Included in each Monthly Status Report.	-	-
A003	Monthly Status Report	-	15 days after end of accounting month	10 days	5 days
A004	Software Development Plan	EP	40 days after contract award	20 days	10 days
A005	Minutes	-	7 days after each meeting	10 days	5 days
A006	Master Schedule	MS	Progress included in each Monthly Status Report.	-	-
A007	System Test Plan	STP	30 days prior to the contractor test event	20 days	10 days
A008	Software Test Report	STR	20 days after contractor test event	15 days	15 days
A009	Operations Manuals	OM	Due upon delivery of Module	30 days	15 days
A010	Updated System Requirements Document per module	SRD	10 days prior to development	20 days	20 days
A011	Software Design Plan	SDD	50 days after contract award	20 days	20 days
A012	Interface Design Document	IDD	30 days prior to development of interfaces	20 days	20 days
A013	Change Control Plan	CP	40 days after Contract Award	10 days	5 days
A014	Iteration Plan	ITP	45 Days after Contract Award	10 Days	5 days
A015	Prototypes	PM	10 days prior to development	10 Days	15 days

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category (Check appropriate one) TDP ☐ TM ☐ Other ☐	
D. System/Item AIRNAV Modules 1and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor	

1. Data Item No. (001) DI-MGMT-81466A	2. Title of Data Item Contract Performance Report (CPR)	3. Subtitle
4. Authority N/A	5. Contact Reference PWS 6.0 Reports	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Monthly	11. As of Date (AOD)

12. Date of First Submission See 14	13. Date of Subsequent Submission See 14	15. Distribution

14. REMARKS:

Contract Performance Report (CPR) as required for compliance with contract clause 1.13-2, Earned Value Management (EVM) system. CPR shall contain all earned value reports and metrics, as shown on Data Item Description (DID) DI-MGMT-81466A.

CPR report formats 1, 2, 3, 4, and 5 shall be required.

Data shall be supplied in hardcopy (PDF) format IAW DID DI-MGMT-81466A and electronically using Microsoft Excel IAW DID FAA-EVM-CPR-X12-Excel which complies with American National Standards Institute (ANSI) X12 format.

FAA shall supply instructions and sample format for FAA-EVM-CPR-X12-Excel at Contractor request.

CPR Format 5, variance analysis reports, shall list any cost or schedule variances at level three of the CWBS that exceed the following thresholds:

Cumulative to date +20% / -10% and $25,000.

At completion: +20% / -10% and $50,000.

15. Distribution			
a. Addressee	b. Draft Copies	c. Final Copies	
		Reg.	Repro
COTR			1
COR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.   **18. Estimated Total Price.** Not used.

DATA ITEM DESCRIPTION

TITLE: CONTRACT PERFORMANCE REPORT (CPR)
NUMBER: DI-MGMT-81466A
AMSC NUMBER: D7549   APPROVAL DATE: 20050330
DTIC APPLICABLE: LIMITATION:
                               GIDEP APPLICABLE:
PREPARING ACTIVITY: OUSD(AT&L)ARA/AM(SO)

APPLICABLE FORMS: DD Forms are available and shall be used to submit required formats as follows:

CPR Format	DD Form Number	Sample Format No.
Work Breakdown Structure	2734/1	1
Organizational Categories	2734/2	2
Baseline	2734/3	3
Staffing	2734/4	4
Explanations and Problem Analyses	2734/5	5

USE/RELATIONSHIP: This report consists of five formats containing data for measuring contractors' cost and schedule performance on Department of Defense (DoD) acquisition contracts. Format 1 (Sample Format 1) provides data to measure cost and schedule performance by product-oriented Work Breakdown Structure (WBS) elements, the hardware, software, and services the Government is buying. Format 2 (Sample Format 2) provides the same data by the contractor's organization (functional or Integrated Product Team (IPT) structure). Format 3 (Sample Format 3) provides the budget baseline plan against which performance is measured. Format 4 (Sample Format 4) provides staffing forecasts for correlation with the budget plan and cost estimates. Format 5 (Sample Format 5) is a narrative report used to explain significant cost and schedule variances and other identified contract problems and topics.

CPR data shall be used by DoD system managers to: (1) integrate cost and schedule performance data with technical performance measures, (2) identify the magnitude and impact of actual and potential problem areas causing significant cost and schedule variances, and (3) provide valid, timely program status information to higher management.

The CPR is a management report. It provides timely, reliable summary-level data with which to assess current and projected contract performance. The CPR's primary value to the Government is its ability to reflect current contract status and reasonably project future program performance. It is important that the CPR be as accurate as possible so it may be used for its intended purpose, which is to facilitate informed, timely decisions. It will be used by the DoD component staff, including program managers, engineers, cost estimators, and financial management personnel, to confirm, quantify, and track known or emerging contract problems and serve as a basis for communicating with the contractor. The CPR data shall accurately reflect how work is being planned, performed, and measured and shall be consistent with the actual contract status.

a. This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirements as delineated in the contract.

b. This DID shall be used in conjunction with the Integrated Master Schedule (IMS) DID, DI-MGMT-81650. This DID may be used in conjunction with the Contract Funds Status Report (CFSR) DID, DI-MGMT-81468, the Contract Work Breakdown Structure (CWBS) DID, DI-MGMT-81334A, the Cost Data Summary Report DID, DI-FNCL-81565A, and the Functional Cost-Hour and Progress Curve Report

DID, DI-FNCL-81566A. The same WBS shall be utilized for the Integrated Master Plan (IMP), IMS, CPR, and Contractor Cost Data Report (CCDR) as applicable.

c. The CPR shall be used to obtain cost and schedule performance information on contracts requiring compliance with the American National Standards Institute/Electronic Industries Alliance Standard 748 (ANSI/EIA-748), Earned Value Management Systems (EVMS) (current version in effect at time of contract award). Refer to the Federal Acquisition Regulation (FAR) or Defense Federal Acquisition Regulation Supplement (DFARS) clause on contract. The CPR data elements shall reflect the output of the contractor's ANSI/EIA-748 compliant integrated management system.

d. The CPR shall be required no less frequently than monthly. All formats shall be submitted to the procuring activity no later than 12 working days following the contractor's accounting period cutoff date. This requirement may be tailored through contract negotiations to allow submission as late as 17 working days, provided that the contractor and Government agree that program complexity and integration of subcontractor and vendor performance data warrant additional time and will yield more accurate performance. Reports may reflect data either as of the end of the calendar month or as of the contractor's accounting period cutoff date, provided it is consistent with the IMS. Formats 2, 3, and 4 may be submitted on a less frequent basis in some cases. Refer to the Earned Value Management Implementation Guide (EVMIG) for guidance on tailoring reporting. (Note: Contractors may elect to attach subcontractor Format 5 reporting and cross reference this analysis in the Format 5 reporting submitted to the Government to gain time efficiencies and meet submission dates.)

e. Unless otherwise provided in the contract, data reported in the CPR shall pertain to all authorized contract work, including both priced and unpriced effort. Refer to the EVMIG for guidance on tailoring reporting.

f. Submission of Format 1 using a product-oriented WBS in accordance with the WBS Handbook, MIL-HDBK-881, and the CWBS DID, DI-MGMT-81334A, is mandatory. (Note: For contracts that require CCDRs, the CWBS shall be developed, approved, and maintained in accordance with DoD 5000.4-M-1, Cost and Software Data Reporting Manual, and the CWBS DID.) Certain aspects of the report are subject to negotiation between the Government and the contractor, such as:

f.1 The level of detail to be reported in Format 1 normally will be at level three of the CWBS, but lower levels may be specified for high-cost or high-risk items. The Government and the contractor shall periodically review and adjust as necessary CWBS reporting levels on Format 1 to ensure they continue to provide appropriate visibility without requiring excessive information. If there is a significant problem at a lower level, detailed reporting for that CWBS element may be required until the problem is resolved.

f.2 Formats 1 and 5 are mandatory in all cases. Formats 2, 3, and 4 are optional in some cases. Refer to the EVMIG for guidance on tailoring reporting.

f.3 Variance analysis thresholds which, if exceeded, require problem analysis and narrative explanations in Format 5. If the contract does not specify variance analysis thresholds, the contractor shall provide appropriate variance analyses. (See 2.6.3 below.) Variance analysis thresholds shall be reviewed periodically and adjusted as necessary to ensure they continue to provide appropriate visibility.

f.4 If the organizational categories for Format 4 are different from Format 2, the Government may request that different organizational categories be used for reporting staffing in Format 4 instead of those used in Format 2. If so, the Government and the contractor shall negotiate the Format 4 categories. If required, the Format 2 categories shall reflect the contractor's internal organization being used to execute the contract.

g. Subject to f., the CPR Contract Data Requirements List (CDRL) is subject to tailoring. Requiring more information in the CPR CDRL than specified in this DID is contrary to DoD policy. All negotiated reporting provisions shall be specified in the contract. Refer to the EVMIG for guidance on tailoring reporting.

REQUIREMENTS:

1. <u>Format</u>. Use the relevant DD Forms as listed above. All formats shall be submitted electronically in accordance with the following requirements. All formats shall be in a readable digital format (e.g., pdf files are not acceptable). The American National Standards Institute (ANSI) X12 standard (839 transaction set), the United Nations Electronic Data Interchange for Administration, Commerce and Transport (UN/EDIFACT) standard (PROCST message), or the XML equivalent shall be used to submit data electronically to the procuring activity. Contractor formats may be substituted whenever they contain all of the required data elements at the specified reporting levels and are compliant with the X12 standard, XML schema, or equivalent. On-line access to the data may be provided to augment formal CPR submission. (Note: Until the ANSI X12/XML standards are redefined to incorporate the changes to the forms, the new data elements shall be reported in Format 5.)

2. <u>Content</u>. The CPR shall contain the following:

2.1 <u>Heading Information - Formats 1 - 5</u>. Preparation instructions for Heading Information (Blocks 1 through 4) apply to Formats 1 through 5.

2.1.1 <u>Contractor</u>. Enter in Block 1.a the contractor's name and division (if applicable). Enter in Block 1.b the facility location and mailing address of the reporting contractor.

2.1.2 <u>Contract</u>. Enter the contract name in Block 2.a, the contract number (and the applicable Contract Line Item Number(s) (CLIN(s)) in Block 2.b, the contract type in Block 2.c, and the contract share ratio (if applicable) in Block 2.d.

2.1.3 <u>Program</u>. Enter in Block 3.a the program name, number, acronym, type, model, and series, or other designation of the prime item(s) purchased under the contract. Indicate the program phase (development, production, etc.) in Block 3.b. Indicate whether the contractor's EVMS has been accepted by the Government and the date of the acceptance.

2.1.4 <u>Report Period</u>. Enter the beginning date in Block 4.a and the ending date in Block 4.b of the period covered by the report.

2.1.5 <u>Security Classification</u>. Enter the appropriate security classification at the top and bottom of each page.

2.1.6 <u>Dollars in _____</u>. If reported dollar amounts are in thousands, millions, or billions, enter the factor at the top of each page.

2.2 Format 1 - Work Breakdown Structure.

2.2.1 Contract Data.

2.2.1.1 Quantity. Enter in Block 5.a the number of principal items to be procured on this contract.

2.2.1.2 Negotiated Cost. Enter in Block 5.b the dollar value (excluding fee or profit) on which contractual agreement has been reached as of the cutoff date of the report. For an incentive contract, enter the definitized contract target cost. Amounts for changes shall not be included in this item until they have been priced and incorporated in the contract through contract change order or supplemental agreement. For a cost plus fixed fee, award fee, or incentive fee contract, enter the estimated cost negotiated. Changes to the estimated cost shall consist only of estimated amounts for changes in the contract scope of work, not for cost growth ("overrun") above the original estimated cost.

2.2.1.3 Estimated Cost of Authorized, Unpriced Work. Enter in Block 5.c the amount (excluding fee or profit) estimated for that work for which written authorization has been received, but for which definitized contract prices have not been incorporated in the contract through contract change order or supplemental agreement.

2.2.1.4 Target Profit/Fee. Enter in Block 5.d the fee or percentage of profit that shall apply if the negotiated cost of the contract is met. (See 2.2.1.2 above.)

2.2.1.5 Target Price. Enter in Block 5.e the target price (negotiated contract cost plus profit/fee) applicable to the definitized contract effort.

2.2.1.6 Estimated Price. Based on the most likely estimate of cost at completion for all authorized contract work and the appropriate profit/fee, incentive, and cost sharing provisions, enter in Block 5.f the estimated final contract price (total estimated cost to the Government). This number shall be based on the most likely management EAC in Block 6.c.1 and normally will change whenever the management estimate or the contract is revised.

2.2.1.7 Contract Ceiling. Enter in Block 5.g the contract ceiling price applicable to the definitized effort.

2.2.1.8 Estimated Contract Ceiling. Enter in Block 5.h the estimated ceiling price applicable to all authorized contract effort including both definitized and undefinitized effort.

2.2.1.9 Over Target Baseline/Over Target Schedule. Enter in Block 5.i the date the last over target baseline or over target schedule was implemented (if applicable).

2.2.2 Estimated Cost at Completion. These blocks shall present the contractor's range of estimated costs at completion. The range of estimates is intended to allow contractor management flexibility to express possible cost outcomes. Contractors shall provide the most accurate Estimates at Completion (EACs) possible through program-level assessments of factors that may affect the cost, schedule, or technical outcome of the contract. Such program-level assessments shall include consideration of known or anticipated risk areas, and planned risk reductions or cost containment measures. EACs shall be reported without regard to contract ceiling.

2.2.2.1 <u>Management Estimate at Completion - Best Case</u>. Enter in Block 6.a.1 the contractor's best case EAC. The best case estimate is the one that results in the lowest cost to the Government. This estimate shall be based on the outcome of the most favorable set of circumstances. If this estimate is different from the most likely EAC (Block 6.c.1), the assumptions, conditions, and methodology underlying this estimate shall be explained briefly in Format 5. This estimate is for informational purposes only; it is not an official company estimate. There is no requirement for the contractor to prepare and maintain backup data beyond the explanation provided in Format 5.

2.2.2.2 <u>Management Estimate at Completion - Worst Case</u>. Enter in Block 6.b.1 the contractor's worst case EAC. The worst case estimate is the one that results in the highest cost to the Government. This estimate shall be based on the outcome of the least favorable set of circumstances. If this estimate is different from the most likely EAC (Block 6.c.1), the assumptions, conditions, and methodology underlying this estimate shall be explained briefly in Format 5. This estimate is for informational purposes only; it is not an official company estimate. There is no requirement for the contractor to prepare and maintain backup data beyond the explanation provided in Format 5.

2.2.2.3 <u>Management Estimate at Completion - Most Likely</u>. Enter in Block 6.c.1 the contractor's most likely EAC. This estimate is the contractor's official contract EAC and, as such, takes precedence over the estimates presented in Column (15) of Formats 1 and 2 and Blocks 6.a.1 and 6.b.1. This EAC is the value that the contractor's management believes is the most likely outcome based on a knowledgeable estimate of all authorized work, known risks, and probable future conditions. This value need not agree with the total of Column (15) (Block 8.e). However, any difference shall be explained in Format 5 in such terms as risk, use of Management Reserve (MR), or higher management knowledge of current or future contract conditions. The assumptions, conditions, and methodology underlying this estimate shall be explained briefly in Format 5. This EAC need not agree with EACs contained in the contractor's internal data, but must be reconcilable to them. The most likely EAC shall also be reconcilable to the contractor's latest statement of funds required as reported in the CFSR, or its equivalent, if this report is a contractual requirement.

2.2.2.4 <u>Contract Budget Base</u>. Enter in Block 6.c.2 the total of negotiated cost (Block 5.b) and estimated cost of authorized, unpriced work (Block 5.c).

2.2.2.5 <u>Variance</u>. Enter in Block 6.c.3 the Contract Budget Base (Block 6.c.2) minus the most likely estimate at complete (Block 6.c.1). This value shall be explained in Format 5 according to applicable contractual requirements.

2.2.3 <u>Authorized Contractor Representative</u>. Enter in Block 7.a the name of the authorized person (program manager or designee) signing the report. Enter that person's title in Block 7.b. The authorized person shall sign in Block 7.c. Enter the date signed in Block 7.d. Electronic signatures are encouraged.

2.2.4 <u>Performance Data</u>.

2.2.4.1 <u>Column (1) - Work Breakdown Structure Element</u>. Enter in Column (1) of Block 8.a the noun description of the CWBS items for which cost information is being reported. CWBS elements and levels reported shall be those specified in the contract. (See f.1 above.)

2.2.4.2 Cost of Money. Enter in Columns (2) through (16) of Block 8.b the Facilities Capital Cost of Money applicable to the contract.

2.2.4.3 General and Administrative. Enter in Columns (2) through (16) of Block 8.c the appropriate General and Administrative (G&A) costs. If G&A costs have not been included in the CWBS costs reported in Block 8.a above, G&A shall be shown as an add entry in Block 8.a. If G&A costs have been included in the CWBS costs reported in Block 8.a above, G&A shall be shown as a non-add entry in Block 8.c with an appropriate notation to that effect. For contracts that require CCDRs, contractors may also have to submit separate costs without G&A for the CWBS elements reported in Block 8.a on an exception basis if the Government specifies such a requirement in the CDRL. If a G&A classification is not used, no entry shall be made other than an appropriate notation to that effect.

2.2.4.4 Undistributed Budget. Enter the amount of budget applicable to contract effort that has not yet been identified to CWBS elements at or below the reporting level. For example, if contract changes were authorized late in the reporting period, they should have received a total budget; however, assignment of work and allocation of budgets to individual CWBS elements may not have been accomplished as of the contractor's accounting period cutoff date. Budgets that can be identified to CWBS elements at or below the specified reporting level shall be included in the total budgets shown for the CWBS elements in Block 8.a and shall not be shown as Undistributed Budget (UB). Enter in Column (15) of Block 8.d the EAC for the scope of work represented by the UB in Column (14) of Block 8.d. Enter in Column (16) of Block 8.d the variance, if any, and fully explain it in Format 5. The reason(s) for UB shall be fully explained in Format 5.

2.2.4.4.1 Use of Undistributed Budget. UB is used to accommodate temporary situations where time constraints prevent adequate budget planning or where contract effort can only be defined in very general terms. UB shall not be used as a substitute for adequate contract planning. Formal budgets shall be allocated to contract effort and responsible organizations at the earliest possible time, preferably within the next reporting period.

2.2.4.5 Subtotal (Performance Measurement Baseline). In Columns (2) through (16) of Blocks 8.a through 8.e, enter the sum of the costs and budgets for direct, indirect, cost of money, and G&A. This subtotal represents the dollars in the allocated budget (less MR), which is the Performance Measurement Baseline (PMB) against which performance is measured.

2.2.4.6 Management Reserve. MR is an amount of the overall contract budget withheld for management control purposes and is held for program unknowns (realized risks on authorized work scope). Reserve is held for future needs and shall not be used to offset cumulative cost variances. It shall not be eliminated from contract prices by the Government during subsequent negotiations nor used to absorb the cost of contract changes. In Column (14) of Block 8.f enter the total amount of budget identified as MR as of the end of the current reporting period. The amounts shown as MR in Formats 1, 2, and 3 should agree. Amounts of MR applied to CWBS elements during the reporting period shall be listed in Block 6.b of Format 3 and explained in Format 5.

2.2.4.6.1 Negative Management Reserve. Negative entries shall not be made in Management Reserve (Column (14) of Block 8.f). There is no such thing as "negative MR." If the contract is budgeted in excess of the Contract Budget Base (the negotiated contract cost plus the estimated cost for authorized, unpriced work), the provisions applicable to formal reprogramming and the instructions in paragraphs 2.2.5.1, 2.2.6.6, 2.2.6.7, and 2.4.1.7 apply.

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2.2.4.7 Total. Enter the sum of all direct, indirect, cost of money, and G&A costs, and UB and MR (if applicable) in Columns (2) through (14) of Block 8.g. The Total lines of Format 1 (Block 8.g) and Format 2 (Block 5.g) should agree. The total of Column (14), Block 8.g, should equal the Total Allocated Budget shown in Block 5.f on Format 3.

2.2.5 Reconciliation to Contract Budget Base.

2.2.5.1 Formal Reprogramming. In exceptional cases, the contractor may establish performance measurement budgets that exceed the Contract Budget Base. Acceptance of the new baseline in excess of the Contract Budget Base will be predicated on Government approval. This process is called formal reprogramming. The contractor and the Government shall agree on how the results of a formal reprogramming will be reported in the CPR before the formal reprogramming is initiated. This agreement and any other pertinent details on the reporting of the formal reprogramming shall be included in Format 5. Blocks 9.a and 9.b are used to reconcile the higher performance measurement budgets, also called an "over target baseline," to the Contract Budget Base. (See 2.2.6.6, 2.2.6.7, 2.4.1.7, and 2.6.5 below for more information on reporting over target baselines (Formal Reprogramming).)

2.2.5.2 Variance Adjustment. In a formal reprogramming (over target baseline), the contractor may: (1) apply the additional budget to completed work, thereby eliminating some or all of the existing cost or schedule variances, (2) apply the additional budget to remaining work, (3) apply some of the additional budget to completed work and some to remaining work, and/or (4) apply some of the additional budget to MR. If the contractor uses a portion of the additional budget to eliminate variances applicable to completed work, the total adjustments made to the cost and schedule variances shall be shown in Columns (10) and (11) of Block 9.a. The total cost variance adjustment entered in Column (11) of Block 9.a should be the sum of the individual cost variance adjustments shown in Column (12) of Block 8.g.

2.2.5.3 Total Contract Variance. In Columns (10) and (11) of Block 9.b, enter the sum of the cost and schedule variances shown on the Total line (Block 8.g) and on the Variance Adjustment line (Block 9.a). In Column (14) enter the Contract Budget Base from Block 6.c.2. In Column (15) enter the management EAC from Block 6.c.1. In Column (16) of Block 9.b enter the difference between Columns (14) and (15) of Block 9.b.

2.2.6 Columns (2) Through (16). When compliance with the ANSI/EIA-748 (current version in effect at time of contract award) is contractually required, the data in Columns (2) through (16) shall reflect the output of the contractor's ANSI/EIA-748 compliant integrated management system.

2.2.6.1 Column (2) and Column (7) - Budgeted Cost - Work Scheduled. For the time period indicated, enter the Budgeted Cost for Work Scheduled (BCWS) in these columns.

2.2.6.2 Column (3) and Column (8) - Budgeted Cost - Work Performed. For the time period indicated, enter the Budgeted Cost for Work Performed (BCWP) in these columns.

2.2.6.3 Column (4) and Column (9) - Actual Cost - Work Performed. For the time period indicated, enter the Actual Cost of Work Performed (ACWP) without regard to ceiling. In all cases, costs and budgets shall be reported on a comparable basis.

2.2.6.4 <u>Column (5) and Column (10) - Variance - Schedule (i.e., accomplishment)</u>. For the time period indicated, these columns reflect the differences between BCWS and BCWP. For the current period column, Column (5) (schedule variance) is derived by subtracting Column (2) (BCWS) from Column (3) (BCWP). For the cumulative to date column, Column (10) (schedule variance) is derived by subtracting Column (7) (BCWS) from Column (8) (BCWP). A positive number in Column (5) and Column (10) indicates a favorable variance. A negative number (indicated by parentheses) indicates an unfavorable variance. Significant variances as specified in the contract shall be fully explained in Format 5. If the contract does not specify variance analysis thresholds, the contractor shall provide appropriate variance analyses. (See 2.6.3 below.)

2.2.6.5 <u>Column (6) and Column (11) - Variance - Cost</u>. For the time period indicated, these columns reflect the difference between BCWP and ACWP. For the current period column, Column (6) (cost variance) is derived by subtracting Column (4) (ACWP) from Column (3) (BCWP). For the cumulative to date column, Column (11) (cost variance) is derived by subtracting Column (9) (ACWP) from Column (8) (BCWP). A positive value indicates a favorable variance. A negative value (indicated by parentheses) indicates an unfavorable variance. Significant variances as specified in the contract shall be fully explained in Format 5. If the contract does not specify variance analysis thresholds, the contractor shall provide appropriate variance analyses. (See 2.6.3 below.)

2.2.6.6 <u>Column (12a) and Column (12b) Reprogramming Adjustments - Cost Variance and Schedule Variance</u>. Formal reprogramming (over target baseline) results in budget allocations in excess of the Contract Budget Base and, in some instances, adjustments to previously reported variances. If previously reported variances are being adjusted, the adjustment applicable to each reporting line item affected shall be entered in Column (12a) if for a cost variance and Column (12b) if for a schedule variance. The total of Column (12a) and Column (12b) should equal the amount shown on the Variance Adjustment line (Block 9.a) in Column (10) and Column (11).

2.2.6.7 <u>Column (13) Reprogramming Adjustments - Budget</u>. Enter the total amounts added to the budget for each reporting line item as the result of formal reprogramming (over target baseline). The amounts shown shall consist of the sum of the budgets used to adjust cost variances (Column (12)) plus the additional budget added to the CWBS element for remaining work. Enter the amount of budget added to MR in the space provided on the Management Reserve line (Block 8.f of Column (13)). The total of Column (13) should equal the budget amount by which the Total Allocated Budget exceeds the Contract Budget Base as shown in Block 5.g of Format 3. An explanation of the reprogramming shall be provided in Format 5.

2.2.6.7.1 <u>Formal Reprogramming Reporting</u>. Columns (12) and (13) are intended for use only in situations involving formal reprogramming (over target baseline). Internal replanning actions within the Contract Budget Base do not require entries in these columns. Where contractors are submitting CPR data directly from automated systems, the addition of Columns (12) and (13) as shown may not be practical due to computer reprogramming problems or space limitations. In such cases, the information shall be provided in Format 5. Contractors shall not be required to abandon or modify existing automated reporting systems to include Columns (12) and (13) if significant costs will be associated with such change. Nor shall contractors be required to prepare the report manually solely to include this information.

2.2.6.7.2. Formal Reprogramming Timeliness. Formal reprogramming (over target baseline) can be a significant undertaking that may require more than a month to implement. To preclude a disruption of management visibility caused by a reporting hiatus, formal reprogramming shall be implemented expeditiously. If a reporting hiatus is needed, the contractor and the Government shall agree on the date and duration of the hiatus before the formal reprogramming is initiated.

2.2.6.8 Column (14) - At Completion - Budgeted. Enter the budgeted cost at completion for the items listed in Column (1). This entry shall consist of the sum of the original budgets plus or minus budget changes resulting from contract changes, internal replanning, and application of MR. The total (Block 8.g) should equal the Total Allocated Budget shown in Block 5.f on Format 3.

2.2.6.9 Column (15) - At Completion - Estimated. Enter the latest revised estimate of cost at completion including estimated overrun/underrun for all authorized work. If the subtotal (Block 8.e) does not agree with the most likely management EAC (Block 6.c.1), the difference shall be explained in Format 5. (See 2.2.2.3 above.)

2.2.6.10 Column (16) - At Completion - Variance. Enter the difference between the Budgeted - At Completion (Column (14)) and the Estimated - At Completion (Column (15)) by subtracting Column (15) from Column (14). A negative value (indicated by parentheses) reflects an unfavorable variance. Significant variances as specified in the contract shall be fully explained in Format 5. If the contract does not specify variance analysis thresholds, the contractor shall provide appropriate variance analyses. (See 2.6.3 below.)

2.3 Format 2 - Organizational Categories.

2.3.1 Performance Data.

2.3.1.1 Column (1) - Organizational Category. In Block 5.a list the organizational categories that reflect the contractor's internal management structure. This format shall be used to collect organizational cost information at the total contract level for organizational elements rather than for individual CWBS elements. This column shall also identify each major subcontractor as defined in the contract. The individual subcontractor line shall reconcile with the cost to the prime (includes subcontractor fee, MR, UB, G&A, cost of money, etc.) or shall track directly with the subcontractor submittal consistent with the company/program documented process for subcontract integration. The process for subcontract integration shall be explained in Format 5. This column shall also identify each major subcontractor and each major vendor separately as an add item. (Note: The separation of subcontractor efforts is for reporting purposes and not intended to impact how contracts are managed.) Except for material included in the add item for each major subcontractor or major vendor, the column shall also identify material separately as an add item. The level of detail to be reported normally will be limited to the organizational level immediately under the operating head of the facility. The contractor may report this information according to its own internal management structure. If the contractor is organized by product teams, this format may not be needed because it may resemble Format 1.

2.3.1.2 Cost of Money. Enter in Columns (2) through (16) of Block 5.b the Facilities Capital Cost of Money applicable to the contract.

2.3.1.3 <u>General and Administrative</u>. Enter in Columns (2) through (16) of Block 5.c the appropriate G&A costs. If G&A costs have not been included in the CWBS costs reported in Block 5.a above, G&A shall be shown as an add entry in Block 5.a. If G&A costs have been included in the CWBS costs reported in Block 5.a above, G&A shall be shown as a non-add entry in Block 5.c with an appropriate notation to that effect. If a G&A classification is not used, no entry shall be made other than an appropriate notation to that effect. (See 2.2.4.3 above.)

2.3.1.4 <u>Undistributed Budget</u>. Enter in Column (14) of Block 5.d the budget applicable to contract effort that cannot be planned in sufficient detail to be assigned to a responsible organizational area at the reporting level. The amount shown on this format may exceed the amount shown as UB on Format 1 if budget is identified to a task at or below the CWBS reporting level but organizational identification has not been made; or may be less than the amount on Format 1 where budgets have been assigned to organizations but not to CWBS elements. Enter in Column (15) of Block 5.d the EAC for the scope of work represented by the UB in Column (14) of Block 5.d. Enter in Column (16) of Block 5.d the variance, if any, and fully explain it in Format 5. (See 2.2.4.4 above.)

2.3.1.5 <u>Subtotal (Performance Measurement Baseline)</u>. Enter the sum of the direct, indirect, cost of money, and G&A costs and budgets in Columns (2) through (16) of Blocks 5.a through 5.e. (See 2.2.4.5 above.)

2.3.1.6 <u>Management Reserve</u>. In Column (14) of Block 5.f enter the amount of budget identified as MR. The Management Reserve entry should agree with the amounts shown in Formats 1 and 3. (See 2.2.4.6 above.)

2.3.1.7 <u>Total</u>. Enter the sum of all direct, indirect, cost of money, and G&A costs and budgets, UB, and MR (if applicable) in Columns (2) through (14) of Block 5.g. The totals on this page should equal the Total line on Format 1. The total of Column (14) should equal the Total Allocated Budget shown in Block 5.f on Format 3.

2.3.2 <u>Columns (2) Through (16)</u>. The instructions applicable to these columns are the same as the instructions for corresponding columns on Format 1. (See 2.2.6 and 2.2.6.1 through 2.2.6.10 above.)

2.4 <u>Format 3 - Baseline</u>.

2.4.1 <u>Contract Data</u>.

2.4.1.1 <u>Original Negotiated Cost</u>. Enter in Block 5.a the dollar value (excluding fee or profit) negotiated in the original contract. For a cost plus fixed fee, incentive, or award fee contract, enter the estimated cost negotiated. For an incentive contract, enter the definitized contract target cost.

2.4.1.2 <u>Negotiated Contract Changes</u>. Enter in Block 5.b the cumulative cost (excluding fee or profit) applicable to definitized contract changes that have occurred since the beginning of the contract.

2.4.1.3 <u>Current Negotiated Cost</u>. Enter in Block 5.c the sum of Blocks 5.a and 5.b. The amount shown should equal the current dollar value (excluding fee or profit) on which contractual agreement has been reached and should be the same as the amount in Negotiated Cost (Block 5.b) on Format 1.

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2.4.1.4 Estimated Cost of Authorized, Unpriced Work. Enter in Block 5.d the estimated cost (excluding fee or profit) for contract changes for which authorization has been received from the contracting officer, but for which contract prices have not been incorporated in the contract, as shown in Block 5.c of Format 1.

2.4.1.5 Contract Budget Base. Enter in Block 5.e the sum of Blocks 5.c and 5.d.

2.4.1.6 Total Allocated Budget. Enter in Block 5.f the sum of all budgets allocated to the performance of the contractual effort. The amount shown shall include all MR and UB. This amount should be the same as that shown on the Total line in Column (14) on Format 1 (Block 8.g) and Format 2 (Block 5.g).

2.4.1.7 Difference. Enter in Block 5.g the difference between Blocks 5.e and 5.f. In most cases, the amounts shown in Blocks 5.e and 5.f will be identical. If the amount shown in Block 5.f exceeds that shown in Block 5.e, it usually is an indication of a formal reprogramming (over target baseline). The difference shall be explained in Format 5 at the time the negative value appears and subsequently for any changes in the difference between Contract Budget Base and the Total Allocated Budget.

2.4.1.8 Contract Start Date. Enter in Block 5.h the date the contractor was authorized to start work on the contract, regardless of the date of contract definitization. (Note: Long-lead procurement efforts authorized under prior contracts are not to be considered.)

2.4.1.9 Contract Definitization Date. Enter in Block 5.i the date the contract was definitized.

2.4.1.10 Planned Completion Date. Enter in Block 5.j the completion date to which the budgets allocated in the PMB have been planned. This date represents the planned completion of all significant effort on the contract. The cost associated with the schedule from which this date is taken is the Total Allocated Budget (Block 5.f of Format 3).

2.4.1.10.1 Performance Measurement Schedule Inconsistent With Contractual Schedule. In exceptional cases, the contractor may determine that the existing contract schedule cannot be achieved and no longer represents a reasonable basis for management control. With Government approval, the contractor may rephase its performance measurement schedule to new dates that exceed the contractual milestones, a condition known as "over target schedule." These new dates are for performance measurement purposes only and do not represent an agreement to modify the contract terms and conditions.

2.4.1.10.2 Over Target Schedule Agreement. The Government and the contractor shall agree on the new performance measurement schedule prior to reporting it in the CPR. The contractor shall provide pertinent information in Format 5 on any schedule milestones that are inconsistent with contractual milestones, beginning the month the schedule is implemented and each month thereafter.

2.4.1.10.3 Indicators of a Performance Measurement Schedule Inconsistent With the Contractual Schedule. Formal reprogramming or internal replanning may result in performance measurement milestones that are inconsistent with the contractual milestones (Over Target Schedule). A difference between the planned completion date (Block 5.j) and the contract completion date (Block 5.k) usually indicates that some or all of the performance measurement milestones are inconsistent with the contractual milestones.

2.4.1.11 Contract Completion Date. Enter in Block 5.k the contract scheduled completion date in accordance with the latest contract modification. The cost associated with the schedule from which this date is taken is the Contract Budget Base (Block 5.e of Format 3).

2.4.1.12 Estimated Completion Date. Enter in Block 5.1 the contractor's latest revised estimated completion date. This date represents the estimated completion of all significant effort on the contract. The cost associated with the schedule from which this date is taken is the "most likely" management EAC (Block 6.c.1 of Format 1).

2.4.2 Performance Data.

2.4.2.1 Column (1) - Performance Measurement Baseline (Beginning of Period). Enter in Block 6.a the time-phased PMB (including G&A) that existed at the beginning of the current reporting period. Most of the entries on this line (e.g., for Columns (4) through (9)) are taken directly from the PMB (End of Period) line on the previous report. For example, the number in Column (4) on the PMB (End of Period) line from the last report becomes the number in Column (3) on the PMB (Beginning of Period) line on this report. The number in Column (5) (End of Period) last report becomes Column (4) (Beginning of Period) on this report, etc. (if each of the two columns covers the same length of time).

2.4.2.2 Baseline Changes. In Block 6.b, list all significant baseline changes that have occurred during the reporting period. This listing shall include the contract changes and supplemental agreements authorized during the reporting period, allocations from MR and UB, and any significant rephasing of budgets. All significant authorized baseline changes shall be listed whether priced or unpriced.

2.4.2.3 Performance Measurement Baseline (End of Period). Enter in Block 6.c the time-phased PMB as it exists at the end of the reporting period. The difference between this line and the PMB (Beginning of Period) represents the effects of all significant changes, including the authorized changes, allocations of MR made during the period, and changes to time phasing due to internal replanning or formal reprogramming. The reasons for these changes shall be explained in Format 5.

2.4.2.4 Management Reserve. Enter in Block 7 the total amount of MR remaining as of the end of the reporting period. This value should agree with the amounts shown as MR in Formats 1 and 2.

2.4.2.5 Total. Enter in Column (16) of Block 8 the sum of Column (16) of Block 6.c (PMB (End of Period)) and Column (16) of Block 7 (Management Reserve). This amount should be the same as that shown on the Total line (Block 8.g) in Column (14) on Format 1.

2.4.3 Column (2) - BCWS - Cumulative To Date. On the PMB (Beginning of Period) line (Block 6.a), enter the cumulative BCWS as of the first day of the reporting period. This should be the same number reported as BCWS - Cumulative To Date on the Total line (Column (7) of Block 8.g) of Format 1 of the previous CPR. On the PMB (End of Period) line (Block 6.c), enter the cumulative BCWS as of the last day of the reporting period. This should be the same number reported as BCWS - Cumulative to Date on the Total line (Column (7) of Block 8.g) of Format 1 for this CPR.

2.4.4 Column (3) - BCWS For Report Period. On the PMB (Beginning of Period) line (Block 6.a), enter the BCWS planned for the reporting period. This should be the number in Column (4) on the PMB (End of Period) line (Block 6.c) on the previous CPR.

2.4.5 Columns (4) Through (14). Enter the names of each month for the contract period of performance in the headings of each of the Columns (4) through (9), and the names of the appropriate periods in the headings of each of the Columns (10) through (14) of Block 6. Columns beyond (14) may be added when necessary or desirable. In the PMB (Beginning of Period) line (Block 6.a), enter the BCWS projection reported in Format 3 of the previous CPR as PMB (End of Period) (Block 6.c). In the PMB (End of Period) line (Block 6.c) of this report, enter the projected BCWS by month for the next six months and for periodic increments (monthly, quarterly, or annually) thereafter for the remainder of the contract. The time phasing of each item listed in Column (1) of Block 6.b need not be shown in Columns (4) through (14). It is useful to show the time phasing of any baseline changes. (Note: For the purposes of illustration, Sample Format 3 has Columns (4) through (14) for reporting BCWS. The actual number of columns will vary from contract to contract.)

2.4.6 Column (15) - Undistributed Budget. On the PMB (Beginning of Period) line (Block 6.a), enter the number from Column (15) on the PMB (End of Period) line (Block 6.c) from the previous CPR. On the PMB (End of Period) line, enter the UB shown in Column (14) of Block 8.d on Format 1 of this report.

2.4.7 Column (16) - Total Budget. On the PMB (Beginning of Period) line (Block 6.a) enter the number from Column (16) on the PMB (End of Period) line (Block 6.c) from the previous CPR. In the section where baseline changes that occurred during the period are listed (Column (1) of Block 6.b), enter the amount of each of the changes listed. On the PMB (End of Period) line (Block 6.c), enter the sum of the amounts in the preceding columns on this line. On the Management Reserve line (Block 7), enter the amount of MR available at the end of the period. On the Total line (Block 8) enter the sum of the amounts in this column on the PMB (End of Period) line and the Management Reserve line. (Note: This should equal the amount in Block 5.f on this format and also the amount of the Total line in Column (14), Block 8.g, of Format 1.)

2.5 Format 4 - Staffing.

2.5.1 Performance Data. For those organizational categories shown in Column (1) of Block 5, equivalent months shall be indicated for the current reporting period (Column (2)), cumulative through the current period (Column (3)), forecast to completion (Columns (4) through (14)), and at completion (Column (15)). Direct equivalent months shall be shown for each organizational category for the contract. An equivalent month is defined as the effort equal to that of one person for one month. Values shall be reported in whole numbers. (Note: Partial months, .5 and above, shall be rounded to 1; below .5 to 0.) When the Government and the contractor agree, staffing may be reported in equivalent days or hours.

2.5.1.1 Column (1) - Organizational Category. In Block 5, list the organizational categories that reflect the contractor's internal management structure. Format 4 categories may differ from those reported in Format 2. If the Government needs different categories in Formats 2 and 4, the Format 4 categories shall be addressed during negotiations. (See f.4 above.)

2.5.1.2 Total Direct. In Block 6, Columns (2) through (15), enter the sum of all direct equivalent months for the organizational categories shown in Column (1).

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2.5.2 <u>Column (2) - Actual - Current Period</u>. Enter the actual equivalent months incurred during the current reporting period.

2.5.3 <u>Column (3) - Actual End of Current Period (Cumulative)</u>. Enter the actual equivalent months incurred to date (cumulative) as of the end of the reporting period.

2.5.4 <u>Columns (4) Through (14) - Forecast (Non-Cumulative)</u>. Enter the names of each month for the contract period of performance in the headings of each of the Columns (4) through (9), and the names of the appropriate periods in the headings of each of the Columns (10) through (14) of Block 5. Enter a staffing forecast by month for the next six months and for periodic increments (monthly, quarterly, or annually) thereafter for the remainder of the contract. The staffing forecast shall be updated as part of the formal EAC process followed by the contractor. The staffing forecast shall reflect the same staffing estimate used as the basis for the EAC in Column (15) on both Format 1 and Format 2. (Note: For the purposes of illustration, Sample Format 4 has Columns (4) through (14) for reporting staffing forecast. The actual number of columns will vary from contract to contract.)

2.5.5 <u>Column (15) - Forecast at Completion</u>. Enter the estimate of equivalent months necessary for the total contract in Column (15) by organizational category. This estimate shall be consistent with the "most likely" management EAC shown in Column (15) of Block 8.e of Format 1. Any significant change in the total number of equivalent months at completion of the contract (i.e., Column (15) Total) shall be explained in Format 5.

2.6 <u>Format 5 - Explanations and Problem Analyses</u>.

2.6.1 <u>General</u>. Format 5, Explanations and Problem Analyses, is a narrative report prepared to amplify and explain data in the other CPR formats. Format 5 shall normally address the following: (1) contractually required cost, schedule, and EAC variance analyses, (2) MR changes and usage, (3) UB contents, (4) differences between the best case, worst case, and most likely management EAC, if any, (5) the difference between the most likely management EAC and the estimate in Block 8.e of Column (15), if any, (6) significant differences between beginning of period PMB time phasing and end of period PMB time phasing in Format 3, (7) performance measurement milestones that are inconsistent with contractual milestones (Over Target Schedule), (8) formal reprogramming (over target baseline) implementation details, and (9) significant staffing estimate changes in Format 4. Any other topic relevant to contract cost, schedule, or technical performance may be addressed in this format. The date(s) of the Integrated Baseline Review(s) may also be addressed in this format. Contractors may elect to attach subcontractor Format 5 reporting and cross reference this analysis in the Format 5 reporting submitted to the Government to gain time efficiencies and meet submission dates.

2.6.2 <u>Total Contract</u>. Provide a summary analysis that identifies significant problems affecting performance. Indicate corrective actions required, including Government action where applicable. Significant changes since the previous report shall be highlighted. Discuss any other issues affecting successful attainment of contract cost, schedule, or technical objectives that the contractor deems significant or noteworthy. This section is brief, normally one page.

2.6.3 <u>Cost and Schedule Variances</u>. Explain all variances that exceed specified variance thresholds. Explanations of variances shall clearly

identify the nature of the problem, significant reasons for cost or schedule variance, effect on the immediate task, impact on the total contract, and the corrective action taken or planned. Explanations of cost variances shall identify amounts attributable to rate changes separately from amounts applicable to hours worked; amounts attributable to material price changes separately from amounts applicable to material usage; and amounts attributable to overhead rate changes separately from amounts applicable to overhead base changes or changes in the overhead allocation basis. To reduce the volume of variance analysis explanations, the contractor may refer to a prior CPR's variance analysis explanations if the explanation for the current CPR's variance has not changed significantly. Explanations of schedule variances and the impact on the contract shall be performed in parallel with the schedule analysis called out by the IMS DID. Accordingly, there is a requirement in b. above for the IMS DID, DI-MGMT-81650, to be used in conjunction with this DID. (See 2.2.6.4 and 2.2.6.5 above.)

2.6.3.1 <u>Setting Variance Analysis Thresholds</u>. In Format 5, the Government will require only that amount of variance analysis that satisfies its management information needs. Excessive variance analysis is burdensome and costly, and detracts from the CPR's usefulness, while too little information is equally undesirable.

2.6.4 <u>Other Analyses</u>. In addition to variance explanations, the following analyses are mandatory:

2.6.4.1. <u>Management Estimate at Completion</u>. If the best or worst case management EACs differ from the most likely estimate (Column (1) of Block 6 of Format 1), a brief explanation of the difference shall be provided. Also, if the most likely management EAC differs from the total entered in Column (15) of Format 1 or 2, the difference shall be explained. The explanations shall focus on such areas as a knowledgeable, realistic risk assessment; projected use of MR; estimate for UB; and higher management's knowledge of current or future contract conditions. The assumptions, conditions, and methodology underlying all management EACs shall be explained. (See 2.2.2 to 2.2.2.3, 2.2.2.5, 2.2.6.9, and 2.2.6.10 above.)

2.6.4.2 <u>Undistributed Budget</u>. Identify the effort to which the UB applies. Also, explain any variance between the UB and the estimate for UB in Formats 1 and 2. (See 2.2.4.4 and 2.3.1.4 above.)

2.6.4.3 <u>Management Reserve Changes</u>. Identify the sources and uses of MR changes during the reporting period. Identify the CWBS and organizational elements to which MR is applied, and the reasons for its application. (See 2.2.4.6 above.)

2.6.4.4 <u>Baseline Changes</u>. Explain reasons for significant shifts in time phasing of the PMB shown on Format 3. (See 2.4.2.3 above.)

2.6.4.5 <u>Staffing Level Changes</u>. Explain significant changes in the total staffing EAC shown on Format 4. Also, explain reasons for significant shifts in time phasing of planned staffing. (See 2.5.5 above.)

2.6.5 <u>Formal Reprogramming (Over Target Baseline)</u>. If the difference shown in Block 5.g on Format 3 becomes a negative value or changes in value, provide information on the following:

2.6.5.1 <u>Authorization</u>. Procuring activity authorization for the baseline change that resulted in negative value or change.

2.6.5.2 <u>Reason</u>. A discussion of the reason(s) for the change.

2.6.5.3 <u>CPR Reporting</u>. A discussion of how the change affected CPR reporting (i.e., amount allocated to MR, adjustments to cost or schedule variances, etc.). (See 2.4.1.7, 2.2.5.1, and 2.2.6.7 above.)

2.6.5.4 <u>Schedule</u>. Indicate whether the contract schedule was retained for performance measurement or was replaced with a schedule that exceeds the contractual schedule (Over Target Schedule).

2.6.6 <u>Over Target Schedule</u>. If a performance measurement schedule exceeding the contractual schedule (Over Target Schedule) has been implemented, provide a discussion of the pertinent information, such as authorization, reasons, and significant dates. (See 2.4.1.10.1 above.)

END OF DI-MGMT-81466A

CONTRACT PERFORMANCE REPORT
FORMAT 5 - EXPLANATIONS AND PROBLEM ANALYSES

1. CONTRACTOR	2. CONTRACT	3. PROGRAM	4. REPORT PERIOD
a. NAME	a. NAME	a. NAME	a. FROM (YYYYMMDD)
b. LOCATION (Address and ZIP Code)	b. NUMBER	b. PHASE	b. TO (YYYYMMDD)
	c. TYPE	c. EVMS ACCEPTANCE	
	d. SHARE RATIO	NO YES (YYYYMMDD)	

5. EVALUATION

Discussion should include but is not limited to:

Summary Analysis

Summary of Overall Contract Variances

Differences between EAC's (Blocks 6.a, 6.b, 6.c, or Block 8.15)

Changes in Undistributed Budget

Changes in Management Reserve

Significant timephasing shifts in Baseline (BCWS) (Format 3)

Significant timephasing shifts or Overall Changes in Forecasted Staffing (Format 4)

Discussion of Over Target Baseline and/or Over Target Schedule incorporation

Analysis of Significant Variances: (identify and describe each)

Type and Magnitude of Variance

Explanation of Significant Reasons

Effect on Immediate Task

Effect on Total Contract

Corrective Actions Taken or Planned

DD FORM 2734/5, MAR 05

LOCAL REPRODUCTION AUTHORIZED.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category *(Check appropriate one)* TDP ☐ TM ☐ Other ☐		
D. System/Item AIRNAV Modules 1 and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor		

1. Data Item No. (002) DI-MGMT-81334A	2. Title of Data Item Contract Work Breakdown Structure (CWBS)	3. Subtitle
4. Authority N/A	5. Contact Reference PWS 6.0 Reports	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Monthly	11. As of Date (AOD)
12. Date of First Submission See 14		13. Date of Subsequent Submission See 14		

14. REMARKS:

The Work Breakdown Structure (WBS) is used as the basic building block for the planning of all authorized work. The WBS is a product-oriented division of project tasks depicting the breakdown of work scope for work authorization, tracking, and reporting purposes, that facilitates traceability and provides a control framework for management. A WBS is a direct representation of the work scope in the project, documenting the hierarchy and description of the tasks to be performed and their relationship to the product deliverables.

The Contract Work Breakdown Structure (CWBS) is required for compliance with contract clause 1.13-2, Earned Value Management (EVM) system.

The CWBS shall include the functional work category (e.g., Program Management, System Engineering, Design & Development, System Testing, or Training) in one of the top three levels.

For reference purposes, the FAA WBS is available at:
http://fasteditapp.faa.gov/ams/do_action?do_action=ListTOC&contentUID=5

The CWBS shall be extended to a level that will include Contractor's control accounts, defined as the WBS control point for management of schedule, budget, earned value, and cost analysis.

The CWBS shall be supplied electronically and be prepared IAW DI-MGMT-81334A, Contract Work Breakdown Structure (CWBS).

NOTE: All references to 'MIL-HDBK-881' in DI-MGMT-81334A are to be replaced with 'FAA WBS'.

15. Distribution

a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
COR			1
COTR			1
16. Total			

G. Prepared By:		H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. **Contract Line Item No..** Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. **Exhibit.** Exhibit identifier for this CDRL item.

C. **Category.** TDP, TM, or Other.

D. **System/Item.** System, item, project designator or name, or title of services being acquired that the data will support.

E. **Contract/PR No.** Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. **Contractor.** Contractor's name.

G. **Prepared by.** Preparer's organization responsible for preparing the CDRL.

H. **Date.** Date the form was prepared.

I. **Approved by.** Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. **Date.** The date the CDRL was approved.

1. **Data Item No.** The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. **Title of Data Item.** The title of the Data Item Description (DID) cited in item 4.

3. **Subtitle.** Further identification of the data item to supplement the title, if required.

4. **Authority (Data Acquisition Document No.)** DID identification number where detailed preparation instructions are provided.

5. **Contract Reference.** The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. **Requiring Office.** The technical office having responsibility for ensuring the technical adequacy of the data.

7. **DD 250 Required.**

8. **APP Code.** Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. **Distribution Statement Required.**

10. **Frequency.** The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. **As of Date.** Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. **Date of First Submission.** Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See Item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		

The "N" is assigned a value indicating the number of days, e.g., 30 DAC

13. **Date of Subsequent Submission.** Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. **Remarks.** Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. **Distribution.** Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. **Total.** Total number of draft and final (regular/reproducible) copies required.

17. **Price Group.** Not used.   18. **Estimated Total Price.** Not used.

DATA ITEM DESCRIPTION

Title: Contract Work Breakdown Structure

Number: DI-MGMT-81334A   **Approval Date:** 20031031

AMSC Number: D7515   **Limitation:**

DTIC Applicable: **GIDEP Applicable:**

Office of Primary Responsibility: (D) OSD/PA&E/CAIG

Applicable Forms: Not Applicable; 35 hours

Use/relationship: This documents the Contract Work Breakdown Structure (CWBS) and its extension by the contractor using terminology and definitions, as applicable, in MIL-HDBK-881. The complete Program Work Breakdown Structure (PWBS) will serve as a basis for program and technical planning, scheduling, cost estimating, resource allocations, performance management where appropriate, configuration management, and status reporting.

This DID summarizes the format for the WBS and provides preparation instructions to support the specific data and frequency requirements specified in the contract. This DID is applicable to all contracts that require a WBS and is related to the two Contractor Cost Data Reporting (CCDR) formats: DD Form 1921, "Cost Data Summary Report" (DID number DI-FNCL-81565A), and DD Form 1921-1, "Functional Cost-Hour and Progress Curve Report" (DID number DI-FNCL-81566A). This DID can also be related to the formats contained in DD Forms 2734/1, 2734/2, 2734/3, 2734/4, and 2734/5, "Cost Performance Report" (DID number DI-MGMT-81466); DD Forms 2735, "Cost/Schedule Status Report, (DID number DI-MGMT-81467); and DD Form 1586, "Contract Funds Status Report" (DID number DI-MGMT-81468).

Routine reporting shall be at CWBS level 3 for prime contractors and key subcontractors. MIL-HDBK-881 serves as the basis for identifying the first three levels of the PWBS and for developing the CWBS. Extensions of the PWBS and CWBS can be tailored to the specific program but will be consistent with MIL-HDBK-881. Detailed reporting of the CWBS (i.e., below level 3) shall be required only for those lower-level elements that address high-risk, high-value, or high-technical-interest areas of a program. Identifying these additional elements is a critical early assignment for the Cost Working Level Integrated Product Team (CWIPT) for inclusion in the PWBS.

The reporting contractor shall prepare and submit the contract dictionary within 60 days of contract award. The reporting contractor shall maintain and update the WBS Dictionary throughout the life of the contract. The dictionary shall not be submitted more frequently than report submissions.

This DID replaces DID number DI-MGMT-81334

Requirements:

1. *Reference documents.* Detailed instructions for preparing the CWBS can be found in MIL-HDBK-881. WBS guidance is also contained in Chapter 2 of the CCDR Manual, DoD 5000.4-M-1.

2. *Formats.* The CWBS shall be reflected in an electronic report that consists of two parts as shown in the sample attachments. Part I is for the CWBS Index and Part II is for the CWBS Dictionary. The index lists the individual elements. The dictionary describes the effort and tasks associated with every CWBS element shown in Part I.

Preparation Instructions:

1. *Contract Work Breakdown Structure Index:*

   a. <u>CWBS Code</u>. Enter the code, if applicable.

   b. <u>CWBS Element Level</u>. Enter the level of the CWBS element. Level 1 is the total contract. Levels 2, 3, etc., are successively lower levels of the program.

   c. <u>CWBS Element Name</u>. Enter the title of the CWBS element using the specific name or nomenclature.

   d. <u>Contract Line Item(s)</u>. Enter the numbers of the contract line items associated with the CWBS element, if applicable.

2. *Contract Work Breakdown Structure Dictionary:*

   a. <u>CWBS Code</u>.

   b. <u>CWBS Element</u>. Enter the title of each CWBS element in the same order as given in Part I.

   c. <u>CWBS Definition</u>. Enter a complete description of the technical and cost content of each CWBS element. The statement should be as descriptive as possible about the efforts, tasks, tests, components, etc., that are to be included in the CWBS element by the contractor. The CWBS Dictionary must be updated and maintained throughout the life of the contract. However, the updated dictionary shall be submitted no more frequently than the CCDR report submissions.

Contract Work Breakdown Structure—Data Item Description (DI-MGMT-81334)

| CONTRACT WORK BREAKDOWN STRUCTURE INDEX | | | | | | PROGRAM: Missile X LRIP Surface-to-Air Interceptor | REP NO: XXXXXX CONTRACT NO: XXXXXX-98-C-XXX | CONTRACT PLAN NO: XXXXXXXX | DATE: 06/30/02 |

CWBS CODE	1	2	3	4	5	NAME	CWBS ELEMENT	CONTRACT LINE ITEM(S)
1.0	✓					Missile System		
1.1		✓				Air Vehicle		
1.1.1			✓			Propulsion		
1.1.2			✓			Airframe		
1.1.3			✓			Warhead		
1.1.4			✓			Post Boost System		
1.1.5			✓			Guidance And Control Equipment		
1.1.5.1				✓		Guidance Section		
1.1.5.1.1					✓	Seeker		
1.1.5.1.2					✓	Guidance Electronics		
1.1.5.2				✓		Control Devices		
1.1.5.3				✓		Structure		
1.1.5.4				✓		Power and Networks		
1.1.6			✓			Ordnance Initiation Set		
1.1.7			✓			Airborne Test Equipment		
1.1.8			✓			Airborne Training Equipment		
1.1.9			✓			Auxiliary Equipment		
1.1.10			✓			IAT&C		
1.2		✓				Integration, Assembly, Test, and Checkout		
1.3		✓				Systems Engineering/Program Management		
1.4		✓				Systems Test and Evaluation		

CONTRACT WORK BREAKDOWN STRUCTURE DICTIONARY		PROGRAM: Missile X LRIP Surface-to-Air Interceptor	RFP NO: _____ CONTRACT NO: XXXXX-98-C-XXXX	DATE: 11/1/00
CWBS CODE	**CWBS ELEMENT**		**CWBS DEFINITION**	
1.0	Missile System		The missile is a cylindrical body with four fixed fins attached to the aft end of the Solid Rocket Motor case. The control surfaces are located behind the fixed fins. The missile angular orientation is zero degrees at top center, with increasing angles positive in a clockwise direction (standing at the aft end looking forward). The outside surface of the missile body is coated for thermal protection of the structure from aerodynamic heating and rain erosion. Electrical interface between the launcher and the missile is provided by an umbilical cable connecting the missile Aft-Section to the Aft-Section of the Canister.	
1.1	Air Vehicle		This element refers to the means for delivering the destructive effect to the target, including the capability to generate or receive intelligence to navigate and penetrate to the target area and to detonate the warhead. This element includes the design, development, and production of complete units (prototype and operationally configured units, which satisfy the requirement of their applicable specifications(s)) regardless of their use.	
1.1.1	Propulsion		The propulsion system consists of the booster and the interstage. A single-stage, solid propellant rocket motor provides all of the boost impulse for the missile. The deployable flares and aft rate gyro package (RGP) are positioned at the aft end of the booster in the BUG configuration.	
1.1.2	Airframe		This element refers to the structural framework that provides the aerodynamic shape, mounting surfaces and environmental protection for the missile components. It includes the wings, fins, and structural body assemblies.	
1.1.3	Warhead		Warhead includes the assembly containing the kill mechanism of the round and its associated high explosives, chemicals, biological agents, nuclear devices, and pyrotechnics.	
1.1.4	Post Boost System		This element provides the roll rate control and the final velocity to adjust and deploy the payload as well as the external protection material, velocity control system, and deployment group.	
1.1.5	Guidance and Control Equipment		This element refers to the missile's ability to acquire and track targets, receive guidance data from various sensors and execute the necessary flight path to intercept the target.	
1.1.5.1	Guidance Section		This element refers to the missile's ability to receive guidance data from various sensors.	
1.1.5.1.1	Seeker		The seeker assembly is attached to the kill vehicle via the forward ring of the forecone. The assembly consists of four elements; a seeker basecone, an IR sensor, a gimbal set, and a Seeker Electronics Assembly (SEA). The seeker basecone is a conical assembly cast from magnesium. It is used as the main structure to mount the IR sensor and gimbals to the KV, and to dampen structural resonances.	
1.1.5.1.2	Guidance Electronics		This element includes all the electronic components and their structural items needed to perform all the seeker tracking functions.	
1.1.5.2	Control Devices		This element includes all the electronic components and support structure needed to perform the electronic processing done outside, but near the detector assembly. This may include detector biasing electronics, preamplification, gain control processing, A/D conversion and multiplexing of the detector outputs when many detector outputs are present.	
1.1.5.3	Structure		This element refers to the metal or composite materials that provide external housing, bulkheads, attach points and connectors for guidance and control equipment.	
1.1.5.4	Power and Networks		This element refers to the subsystem that starts the missile and maintains electrical power prior to launch, upon release from the launch platform, and during flight. Additionally, it consists of power supply devices and power converters.	
1.1.6	Ordnance Initiation Set		The ordnance initiation set initiates all ordnance events throughout the missile and ground system (except reentry system components). Upon receipt of an electrical signal from the missile guidance and control system, the ordnance initiation set firing units convert the signal into ordnance outputs to the detonating cords. Among these ordnance events are stage separation, motor ignition, gas generator ignition, shroud separation, etc. Includes through bulkhead initiators, ordnance test harnesses, and firing units/exploding bridge wires.	
1.1.7	Airborne Test Equipment		The airborne test equipment element refers to an exercise warhead that is interchangeable with the live warhead and suitable for developmental firing. This element includes destruct systems, recovery systems, special instrumentation, and telemetry equipment.	
1.1.8	Airborne Training Equipment		The airborne training equipment element refers to an exercise warhead that is interchangeable with the live warhead and suitable for training firing. This element includes destruct systems, recovery systems, special instrumentation, and telemetry equipment associated with the training mission.	
1.1.9	Auxiliary Equipment		The auxiliary equipment element refers to that additional equipment generally excluded from other specific elements. This element includes the environmental control, safety and protective subsystems, and destruct system. It also includes equipment of a single purpose and function that is necessary for accomplishing the assigned mission.	
1.1.10	Integration, Assembly, Test and Checkout		The IAT&CO of the hardware will be conducted at the contractor's assembly facility. Subsystem components will be assembled and tested, then shipped to company YYYY for final assembly and testing.	

CONTRACT WORK BREAKDOWN STRUCTURE DICTIONARY		PROGRAM: Missile X LRIP Surface-to-Air Interceptor	RFP NO: _____ CONTRACT NO: XXXXXX-98-C-XXXX	DATE: 11/1/00
CWBS CODE	**CWBS ELEMENT**		**CWBS DEFINITION**	
1.2	Integration, Assembly, Test, and Checkout		The IAT&CO of the missile will be conducted at a Company YYYY assembly facility. For flight vehicles, the guidance and control unit is tested and installed, the units are fueled, and the ordinance is installed. The missile is then installed in the canister and shipped to the testing range.	
1.3	Systems Engineering/Program Management		The system engineering and technical control as well as the business management of the project. System Engineering/Project Management effort that can be associated specifically with the hardware element is excluded, unless this management effort is of special contractual or engineering significance (e.g., associated contractor).	
1.4	Systems Test and Evaluation		Four prototypes of the missile will be tested at WWWWW testing range over a period of 3 months. The testing facility will evaluate both missile performance and accuracy, along with the launching platform capabilities.	

End of DI-MGMT-81334A

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category *(Check appropriate one)* TDP ☐ TM ☐ Other ☐	
D. System/Item AIRNAV Modules 1 and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor	

1. Data Item No. 003	2. Title of Data Item Monthly Status Report (MSR)		3. Subtitle

4. Authority N/A	5. Contact Reference PWS 6.0	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Monthly	11. As of Date (AOD)

12. Date of First Submission See 14	13. Date of Subsequent Submission See 14	15. Distribution

14. REMARKS:

Contractor shall deliver a signed Monthly Status Report (MSR) in electronic format (Adobe PDF) no later than 15 calendar days after end of Contractor's Accounting month.

MSR shall minimally include the following:
Progress Report for current month
Planned progress for next month
Integrated Master Schedule
Financial Status including 60-day Cost Projection
Risks and Mitigation Activities
Action Item Lists
Scope Issues

Government comments due 10 DA contractor initial delivery

Final version due 5 DA Government comments.

a. Addressee	b. Draft Copies	c. Final Reg.	Copies Repro
COR			1
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes			
CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
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OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes			
Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See Item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.   **18. Estimated Total Price.** Not used.

A. Contract line Item No.	B. Exhibit	C. Category *(Check appropriate one)*		
001, 002	A	TDP ☐	TM ☐	Other ☐

D. System/Item	E. Contract/PR No.	F. Contractor
AIRNAV Module 1 and 2	DTFAAC-08-C-00000	

1. Data Item No.	2. Title of Data Item	3. Subtitle
004	Software Development Plan (SDP)	

4. Authority	5. Contact Reference	6. Requiring Office
N/A	PWS 6.0	AVN –160 (AJW-326)

7. DD 250 Req'd	8. APP Code	9. Distribution Statement Required	10. Frequency	11. As of Date (AOD)
N/A	A		Each Module	

12. Date of First Submission	13. Date of Subsequent Submission	15. Distribution
See 14	See 14	

14. REMARKS:

Due 40 DA contract award.

Government comments due 20 DA contractor initial delivery.

Final Version 10 DA Government comments.

15. Distribution

a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
AJA-17			1
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

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(Mark Not Applicable sections as N/A)

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CONTRACT DATA REQUIREMENTS LIST (CDRL)

Page 1 of

A. Contract line Item No.	B. Exhibit	C. Category (Check appropriate one)		
001, 002	A	TDP ☐	TM ☐	Other ☐

D. System/Item	E. Contract/PR No.	F. Contractor
AIRNAV Modules 1 and 2	DTFAAC-08-C-00000	

1. Data Item No.	2. Title of Data Item	3. Subtitle
005	Minutes	

4. Authority	5. Contact Reference	6. Requiring Office
N/A	PWS 6.0	AVN –160 (AJW-326)

7. DD 250 Req'd	8. APP Code	9. Distribution Statement Required	10. Frequency	11. As of Date (AOD)
N/A	A		As required	

12. Date of First Submission	13. Date of Subsequent Submission	15. Distribution
See 14	See 14	

14. REMARKS:

For all formal meetings, whether in person or teleconference, between the Contractor and Government, Contractor shall record minutes and action items.

Minutes and action items shall be made available electronically no later than 7 business days after meeting date.

Government comments due within 10 days after contractor initial delivery.

Final version 5 business days after Government comments.

a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		

The "N" is assigned a value indicating the number of days, e.g., 30 DAC

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.   **18. Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

Page 1 of

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category *(Check appropriate one)* TDP ☐ TM ☐ Other ☐		

D. System/Item AIRNAV Modules 1 and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor

1. Data Item No. (006) DI-MGMT-81650	2. Title of Data Item Integrated Master Schedule (IMS) (Project Schedule)	3. Subtitle

4. Authority N/A	5. Contact Reference PWS 6.0 Reports	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Monthly	11. As of Date (AOD)

12. Date of First Submission See 14	13. Date of Subsequent Submission See 14	15. Distribution

14. REMARKS:

Required prior to start of AIRNAV Module 1 design, and with Monthly Status Report. IMS shall be provided in electronic format (Microsoft Schedule or Adobe PDF).

IMS shall contain a Network Logic Schedule (NLS).

NLS shall identify the critical path.

NLS shall contain all contractually specified milestones, identifying all Government Furnished Equipment (GFE) or Government Furnished Information (GFI) required for meeting those milestones.

NLS shall be organized according to Contractor Work Breakdown Structure (CWBS).

The following standard milestones shall be included along with other AMS milestones as appropriate:

1) System Requirements Review (SRR) (S15) completion
2) Preliminary Design Review (PDR) (S18) completion
3) Critical Design Review (CDR) (S19) completion
4) Operational Test & Evaluation (OT&E) (S26) completion
5) Factory Acceptance Test (FAT) (S31) completion (also referred to as Contractor System Test)
6) Independent Operational Test & Evaluation (IOT&E) (S37) completion (also referred to as Government System Test)
7) Initial Operational Capability (IOC) (S38) (Commissioning)

AMS Milestone list attached.

IMS shall be prepared IAW DI-MGMT-81650

15. Distribution			
a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
COR			1
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

OMB Control No. 2120-0595

(DD Form 1423-1) FAA Template No. 59 (8/98)

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. **Contract Line Item No..** Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. **Exhibit.** Exhibit identifier for this CDRL item.

C. **Category.** TDP, TM, or Other.

D. **System/Item.** System, item, project designator or name, or title of services being acquired that the data will support.

E. **Contract/PR No.** Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. **Contractor.** Contractor's name.

G. **Prepared by.** Preparer's organization responsible for preparing the CDRL.

H. **Date.** Date the form was prepared.

I. **Approved by.** Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. **Date.** The date the CDRL was approved.

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1. **Data Item No.** The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. **Title of Data Item.** The title of the Data Item Description (DID) cited in item 4.

3. **Subtitle.** Further identification of the data item to supplement the title, if required.

4. **Authority (Data Acquisition Document No.)** DID identification number where detailed preparation instructions are provided.

5. **Contract Reference.** The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. **Requiring Office.** The technical office having responsibility for ensuring the technical adequacy of the data.

7. **DD 250 Required.**

8. **APP Code.** Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. **Distribution Statement Required.**

10. **Frequency.** The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
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R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. **As of Date.** Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. **Date of First Submission.** Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

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"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		

The "N" is assigned a value indicating the number of days, e.g., 30 DAC

13. **Date of Subsequent Submission.** Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. **Remarks.** Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. **Distribution.** Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. **Total.** Total number of draft and final (regular/reproducible) copies required.

17. **Price Group.** Not used.   18. **Estimated Total Price.** Not used.

Milestone	Milestone Description	Level	AMS Phase	Applicability
S1	**Service-Level Mission Need Decision (SLMNS):** The SLMNS prioritizes and describes the capability shortfalls and opportunities for a service organization. It is the basis for all investment opportunities that enter the AMS lifecycle management process. The Chief Operating Officer (ATO) or Associate or Assistant Administrator (non-ATO) approve the SLMNS. It is reviewed annually and updated as needed.	1	Mission analysis	F,C,N
S2	**Program Requirements (PR) Approval:** Preliminary program requirements are developed during concept and requirements definition and recorded in Attachment 1 to the Exhibit 300 Program Baseline (XPB). Program requirements are revised during initial investment analysis and finalized during final investment analysis. They are approved by the Vice Presidents (ATO) or Directors (non-ATO) of the implementing and operating service organizations.	1	Concept and requirements definition	F,C,N
S3	**Readiness for Investment Analysis Decision.** This decision occurs after completion of concept and requirements definition. It verifies that preliminary requirements are well-defined and identifies the preliminary alternatives that will be evaluated during initial investment analysis. The decision authority is the Chief Operating Officer (ATO) or Associate or Assistant Administrator (non-ATO) of the line of business with the mission need.		Concept and requirements definition	
S4	**Business Case Analysis Report (BCAR) Approval:** The Investment Analysis Team prepares the BCAR during initial investment analysis. This report defines the investment alternatives and quantifies the costs and benefits associated with each. The BCAR is Attachment 2 of the XPB and is approved by the ATO Vice President for Finance.	1	Initial investment analysis	F,C,N

S5	**Initial Investment Decision:** The JRC selects a solution for implementation at the initial investment decision and authorizes entry into final investment analysis for detailed planning and development of the XPB. The decision document is the preliminary XPB, including attachment 1 (Preliminary Program Requirements) and Attachment 2 (Business Case Analysis Report).	1	Initial investment analysis	F,C,N
S6	**Exhibit 300 Program Baseline Approval:** The XPB establishes the performance, cost, schedule and benefits boundaries for implementing an investment program. The Investment Analysis Team develops the XPB during final investment analysis for the solution selected for implementation at the initial investment decision. The service team that will implement the investment program develops cost and schedule baselines. The JRC approves XPB at the final investment decision. All baseline changes require JRC approval.	1	Final investment analysis	F,C,N
S7	**Implementation Strategy and Planning (ISP) Attachment Approval:** The ISP defines the overall planning by which the service team will execute an investment program during the solution implementation and support fielded products during in-service management Part 1 is a high-level, strategic overview of the service team's technical, management, procurement, and lifecycle management approach. Part 2 provides detailed actions that will be implemented for the phase approved for implementation by the Joint Resources Council at the final investment decision. It is approved by the Vice Presidents (ATO) or Directors (non-ATO) of the implementing and operating service organizations.	1	Final investment analysis	F,C,N
S8	**Independent Operational Testing & Evaluation (IOT&E) Plan Approved:** The IOT&E Plan assess compliance with operational requirements as defined in the Program Requirements Attachment to the X300 Program Baseline ATO-S identifies programs which are to receive IOT&E. ATO-S develops and co-approves the IOT&E section of the ISP.	2	Final investment analysis	F,C,N
S9	**Initiate The In-Service Review (ISR) Process:** The ISR process begins during final investment analysis. It is initiated by a meeting between the ATO-S in-service review staff and cognizant service team members.	2	Final investment analysis	F,C,N

ID	Description		Phase	Category
S10	**System Specification Approved:** The specification is approved before issuing the final Screening Information Request. The service team approves the specification.	2	Final investment analysis	F,N
S11	**Screening Information Request (SIR) Released:** There are three types of SIRs: Qualification Information which qualifies vendors for inclusion on the Qualified Vendors List; Screening Information which requests information from vendors to support a down-selection process (can be used iteratively); and Request for Offer (RFO) which requests binding offers from vendors (takes the place of the RFP). SIRs are developed and released during final investment analysis. Vendor responses are a basis for cost and schedule baselines in the XPB.	1	Final investment analysis	F,C,N
S12	**Operational Capability Demonstration (OCD) Completed:** Before a production contract award or decision to procure COTS or NDI, the investment analysis team may choose to evaluate a vendor's COTS hardware/software or an entire NDI subsystem to ensure it can meet specified functional and performance requirements. An OCD may occur during concept and requirements definition or initial investment analysis as part of the search for solution to mission need or as part of the source evaluation process during final investment analysis.	1	Concept and requirements definition and / or initial or final investment analysis	C,N
S13	**Final Investment Decision:** The JRC approves and baselines an investment program at the final investment decision. The decision document is the XPB and its planning attachments		Final investment analysis	
S14	**Contract Award:** This event occurs when a contract is signed by both the contracting officer and the contractor. For a new investment program, contract award occurs early in solution implementation soon after the final investment decision.	1	Solution implementation	F,C,N
S15	**Systems Requirements Review (SRR) Complete:** The SRR occurs when the service team meets with the contractor design team to clarify functional, performance, test, and interface requirements, as outlined in the contract and specification. The SRR is complete when the service team determines the action items resulting from the review are sufficiently completed.	2	Solution implementation	F,C,N

S16	**System Design Review (SDR) Complete:** This review is conducted when the design definition effort has proceeded to the point where system characteristics are defined and configuration items are identified. The focus of the SDR is to evaluate the optimization, traceability, correlation, completeness, and risk of the system-level design to fulfill system functional baseline requirements. The service team determines when this review is complete.	2	Solution implementation	F,N
S17	**Software Specification Review (SSR) Complete:** The SSR is a formal review of a CSCI's requirements as specified in the Software Requirements Specification. Its purpose is to establish the allocated baseline for preliminary CSCI design by demonstrating the adequacy of the Software Requirements Specification (SRS). The SRR is complete when the service team determines that action items resulting from the review are sufficiently completed.	2	Solution implementation	F,N
S18	**Preliminary Design Review (PDR) Completed:** PDR is conducted by the service team to determine conformity of functional characteristics of the design to baseline requirements. The PDR represents approval to begin detailed design. The PDR is complete when the service team determines that action items resulting from the review are sufficiently completed and the contracting officer authorizes the contractor to proceed.	1	Solution implementation	F,N
S19	**Critical Design Review (CDR) Completed:** CDR is the service team's evaluation of contractor product design. It is conducted for each HWCI and CSCI when all engineering drawings are complete. This is the last major review before authorization to fabricate a first article. For CSCIs, the CDR is conducted before coding and informal software testing. For large, complex systems, it may be a progressive or incremental review that culminates in a system-level CDR. The CDR is complete when the service team determines the action items resulting from the review are sufficiently completed.	1	Solution implementation	F,N

S20	**Product Demonstration Decision.** This decision occurs after completion of critical design review. Decision criteria are: engineering drawings are complete, system design and functionality satisfy customer requirements, key product characteristics are defined, system design reviews are complete, RMA goals and planning are complete, failure modes and effects analysis is complete, critical manufacturing processes are identified, and stakeholders agree that design is complete and producible. The decision authority is the Vice President (ATO) or Director (non-ATO) of the service organization.		Solution implementation	
S21	**Provisioning Conference Complete:** This occurs when the last formal provisioning conference meeting is conducted. This includes the plan on how the product will be supported.	2	Solution implementation	F,C,N
S22	**Provisioning Technical Documentation Delivered:** This occurs when provisioning documents are delivered to the FAA by the contractor and accepted in final form.	2	Solution implementation	F,C,N
S23	**System Delivered to Test and Evaluation Site:** In most cases, this will be the William J. Hughes Technical Center. This occurs when the equipment, spares, test equipment, and software physically arrive at the test site.	2	Solution implementation	F,C,N
S24	**Test Readiness Review (TRR):** The TRR is a multi-disciplined technical review to ensure the subsystem or system under review is ready to proceed into system-level Developmental Test. The TRR determines the completeness of test procedures and their compliance with test plans and descriptions.	2	Solution implementation	F,C,N
S25	**Development Test and Evaluation (DT&E):** DT&E is conducted throughout the acquisition management process to ensure the fielding of an effective and supportable system. This formal testing is performed by the contractor and witnessed by the FAA at the test and evaluation site. It is normally done at the William J. Hughes Technical Center where the product can be interfaced to other FAA systems and tested without the risk of service outage.	2	Solution implementation	F,C,N

S26	**Operational Test & Evaluation (OT&E) Completed:** OT&E is conducted an environment as operationally realistic as possible. This milestone is completed when government integration and shakedown testing has been performed at the test and evaluation site. It occurs when all test procedures have been successfully completed per the test plan.	2	Solution implementation	F,C,N
S27	**Functional Configuration Audit (FCA) Complete:** The FCA formally examines the "as tested" characteristics of a configuration item (CI). It is conducted on test data from a representative production unit to verify actual performance. The FCA is complete when the service team determines that discrepancies resulting from the audit are corrected.	2	Solution implementation	F,N,C
S28	**Physical Configuration Audit (PCA) Complete:** The PCA formally examines the "as built" physical product configuration or "as coded" total system software against design documentation. The PCA is complete when the service team determines that discrepancies resulting from the audit are corrected.	2	Solution implementation	F,N,C
S29	**Production Readiness Review (PRR):** The PRR determines if production engineering problems have been resolved, adequate planning accomplished, and the design is ready for production. The review evaluates the complete production-configured system to determine if it correctly and completely implements all system requirements. It determines whether system requirements are traceable to the final production system.	2	Solution implementation	F,C,N
S30	**Production Decision:** The production decision freezes the design and authorizes the program to move into full-scale production of the product. It occurs after successful operational test and evaluation and when stakeholders agree manufacturing processes are in sufficient statistical control to achieve product RMA requirements. This decision authority is the Vice President (ATO) or Director (non-ATO) of the service organization unless reserved for the JRC (determined at the final investment decision).	1	Solution implementation	F,C,N

S31	**Factory Acceptance Testing (FAT) Complete:** FAT is formal testing conducted by the contractor (usually) at the contractor facility. The FAT verifies that the production item conforms to all contract specifications, is free from manufacturing defects, and meets all specification requirements. Completion is determined by the service team.	2	Solution implementation	F,N,C
S32	**Operator/Maintenance Training Begins:** Begins at the inception of the first formal course sanctioned by FAA Academy.	2	Solution implementation	F,C,N
S33	**Site Implementation Complete:** This occurs when all activities related to site preparation are complete such as EPA studies, land acquisition, and facilities and site preparation.	2	Solution implementation	F,C,N
S34	**First-Site Delivery:** This milestone occurs when product hardware, software, and support items (including instruction manuals) physically arrive at the key site. Milestone may not be needed if the test & evaluation site and first operational site are the same.	1	Solution implementation	F,C,N
S35	**Training Material Delivered:** This milestone occurs when FAA-approved training materials are delivered to a site.	2	Solution implementation	F,C,N
S36	**First Site Acceptance Tests Completed:** This milestone is complete when the service team determines the contractor has successfully completed all test procedures per the test plan.	2	Solution implementation	F,C,N
S37	**Independent Operational Test & Evaluation (IOT&E) Complete:** IOT&E is a user/operator evaluation of the product in an operational environment. It provides decision-makers with an independent determination of operational readiness in support of the in-service decision. IOT&E testing is complete when verification is made of the operational effectiveness and suitability of the equipment with user participation, as defined in the Program Requirements Attachment to the XPB (e.g., reliability, maintainability, degraded operations, stress and NAS load-testing, system-man-machine interface, human factors, safety and security, site adaptation, transition switchover). Completion is determined by the IOT&E Test Team.	1	Solution implementation	F,C,N
S38	**Initial Operational Capability:** This milestone is complete when the service team determines that equipment hardware and software have been successfully installed, tested, and shown to meet specified requirements placed on the contractor.	1	Solution implementation	F,C,N
S39	**Final In-Service Review (ISR) Report Delivered:** This is the final report to support the in-service decision. This decision is made by the in-service decision authority.	2	Solution implementation	F,C,N

S40	**In-Service Decision:** This milestone represents the decision to accept a product or service for operational use during the solution implementation phase of the lifecycle acquisition management process. This decision allows deployment activities to commence, such as installing products at each site and certifying them for operational use.	1	Solution implementation	F,C,N
S41	**First Operational Readiness Date (ORD):** First ORD occurs when the first operational system satisfies FAA joint acceptance inspection, construction, installation, performance, operation, and maintenance criteria and is ready to be placed into operational use.	1	Solution implementation	F,C,N
S42	**First Commissioning:** The first facility, system, subsystem or equipment is commissioned when it has been formally accepted and placed into operational service in the NAS, and its controlling Technical Operations sector has assumed maintenance responsibility.	1	In-service management	F,C,N
S43	**System delivered to last Operational Site:** This milestone occurs when equipment hardware and software physically arrive at the last site.	2	Solution implementation	F,C,N
S44	**Last Site Acceptance Test Completed:** This milestones occurs when the service team determines that all test procedures have been completed per the test plan and the product accepted.	2	Solution implementation	F,C,N
S46	**Last Operational Readiness Demonstration (ORD):** Last ORD occurs when the last operational product satisfies FAA joint acceptance inspection construction, installation, performance, operation, and maintenance criteria and is ready to be place into operational use.	1	In-service management	F,C,N
S47	**Last Commissioning:** The last facility, system, subsystem or equipment is considered to be commissioned when it has been formally accepted and placed into operational service in the NAS, and its controlling Technical Operations sector has assumed maintenance responsibility. With completion of this milestone, the transition into in-service management is complete.	1	In-service management	F,C,N

DATA ITEM DESCRIPTION

TITLE: INTEGRATED MASTER SCHEDULE (IMS)
NUMBER: DI-MGMT-81650   APPROVAL DATE: 20050330
AMSC NUMBER: D7544   LIMITATION:
DTIC APPLICABLE: GIDEP APPLICABLE:
PREPARING ACTIVITY: OUSD(AT&L)ARA/AM(SO)

APPLICABLE FORMS: None

USE/RELATIONSHIP: The Integrated Master Schedule (IMS) is an integrated schedule containing the networked, detailed tasks necessary to ensure successful program execution. The IMS is vertically traceable to the Integrated Master Plan (IMP) (if applicable), the Contract Work Breakdown Structure (CWBS), and the Statement of Work (SOW). The IMS shall be used to verify attainability of contract objectives, to evaluate progress toward meeting program objectives, and to integrate the program schedule activities with all related components. This DID is applicable to development, major modification, and low rate initial production efforts; it is not typically applied to full rate production efforts.

a. This Data Item Description (DID) contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.

b. This DID shall be applied to contracts that require Earned Value Management (EVM) and other contracts based on the contract risk assessment. Refer to the Earned Value Management Implementation Guide (EVMIG) for guidance on tailoring reporting.

c. The prime contractor is required to include significant external interfaces and critical items from suppliers, teammates, or other detailed schedules that depict significant and/or critical elements and Government furnished equipment or information dependencies for the entire contractual effort in a single integrated network. The determination of significant and critical shall be agreed to by the Government and the contractor and shall be defined and documented in the Contract Data Requirements List (CDRL).

d. The IMS shall be statused according to the contractor's management control system and shall be submitted no less frequently than monthly. If a Contract Performance Report (CPR) is required, the IMS shall be statused and submitted to the procuring activity prior to or concurrently with CPR Formats 1-5 (as applicable). The IMS may reflect data either as of the end of the calendar month or as of the contractor's accounting period cutoff date, provided it is consistent and traceable to the CPR (if applicable). When subcontractor schedule data reflects a different status date than the prime contractor's schedule status date, these status dates shall be described in the analysis section of the IMS.

e. This DID shall be used in conjunction with the CWBS DID, DI-MGMT-81334A, and the CPR DID, DI-MGMT-81466. (Note: The IMS DID may be required when there is no EVM (CPR) requirement.)

REQUIREMENTS:

1. Format. The IMS shall be created using a network capable Commercially Off the Shelf (COTS) scheduling software application. Unless otherwise provided in the CDRL, the IMS shall be delivered electronically in the native digital format (i.e., an electronic file produced by the contractor's scheduling

tool). (Note: When the technology is available, the CDRL may be tailored, upon agreement between the prime contractor and the Government representative, to allow the American National Standards Institute (ANSI) X12 standard (806 transaction set), the United Nations Electronic Data Interchange for Administration, Commerce and Transport (UN/EDIFACT) standard (PROTAP message), or the XML equivalent to be used to submit data electronically to the procuring activity with on-line access to the data.)

2. Content. The schedule shall contain the contract milestones, accomplishments, and discrete tasks/activities (including planning packages where applicable) from contract award to the completion of the contract. The schedule shall be an integrated, logical network-based schedule that correlates to the CWBS, and is vertically and horizontally traceable to the cost/schedule reporting instrument used to address variances such as the CPR (if applicable). The schedule shall have a numbering system that provides traceability to the IMP (if applicable) and SOW. It shall contain contractual milestones and descriptions and display summary, intermediate, and detailed schedules, and periodic analysis of progress to date. It shall include fields and data that enable the user to access the information by product, process, or organizational lines.

2.1 Contract Milestones and Definitions. Key programmatic events, which define progress and completion for each CWBS element, along with the definition for successful completion of the milestone.

2.2 Summary Master Schedule. A top-level schedule of key tasks/activities and milestones at the summary level of the CWBS and IMP (if applicable). It shall be an integrated roll up of the intermediate and detailed schedules (see 2.3 and 2.4 below) (vertical integration).

2.3 Intermediate Schedules. Mid-level contract schedules that include key tasks/activities and milestones and all associated accomplishments in the summary master schedule, traceable to the CWBS element or IMP event as necessary to display work effort at the intermediate level of summarization. There may be several intermediate schedules that depict varying levels of detail. They shall be integrated roll ups of the detailed schedules (see 2.4 below) (vertical integration).

2.4 Detailed Schedules. The lowest level of contract tasks/activities that form the network. The detailed schedules shall contain horizontal and vertical integration, as a minimum, at the work package and planning package level. The detailed schedules shall include all tasks/activities, work packages, and planning packages identified in the contract Performance Measurement Baseline (PMB). Every discrete task/activity, work package, and planning package shall be clearly identified and directly related to a control account. Work packages and planning packages shall be individually represented and summarize to or reconcile with the total budget for that control account. If Level of Effort (LOE) control accounts, work packages, or planning packages are included as tasks in the IMS, they shall be clearly identified as such. The detailed tasks/activities, work packages, and planning packages shall be traceable to only one CWBS, IMP, and performing organizational element, as applicable. The level of detail in the IMS (including number and duration of tasks/activities) shall follow the contractor's EVM process as documented in the EVMS system description, program directives, etc. Shorter-term work packages (ideally equal in length to the statusing interval) are preferred because they provide more accurate and reliable measures of work accomplished.

2.4.1 <u>Key Elements of Detailed Schedules</u>. The key elements of the detailed schedules include the following:

2.4.1.1 <u>Task/Activity</u>. An element of work with duration.

2.4.1.2 <u>Milestone</u>. A specific definable accomplishment in the contract network, recognizable at a particular point in time. Milestones have zero duration and do not consume resources.

2.4.1.3 <u>Duration</u>. The length of time estimated (or realized) to accomplish a task/activity.

2.4.1.4 <u>Percent Complete (Schedule)</u>. The proportion of an activity or task that has been completed to time now. This usually involves updating or statusing the activity or task utilizing one of two methods: (1) update the remaining time to complete (remaining duration) and the scheduling software will then automatically update the schedule percent complete or (2) update the schedule percent complete and allow the scheduling software to calculate the time remaining (remaining duration) to complete. Either method will use the following formula: Percent of Duration Completed = (Actual Duration / Total Duration) X 100.

2.4.1.5 <u>Task/Activity and Milestone Descriptions</u>. These are descriptive titles that are concise, complete, and clearly identify the work effort being accomplished. Abbreviations may be used to shorten the descriptive titles.

2.4.1.6 <u>Task/Activity Codes and Data Dictionary</u>. A list of field definitions and code structures. This list shall be provided to the procuring activity.

2.4.1.7 <u>Relationship/Dependency</u>. These identify how predecessor and successor tasks/activities and milestones are logically linked. Relationships, also called network logic, are modeled in four ways:

2.4.1.7.1 <u>FS (Finish to Start)</u>. A predecessor task/activity or milestone that must finish before a succeeding task/activity or milestone can start. FS relationships shall be used whenever possible.

2.4.1.7.2 <u>SS (Start to Start)</u>. A predecessor task/activity or milestone that must start before a succeeding task/activity or milestone can start.

2.4.1.7.3 <u>FF (Finish to Finish)</u>. A predecessor task/activity or milestone that must finish before a succeeding task/activity or milestone can finish.

2.4.1.7.4 <u>SF (Start to Finish)</u>. A predecessor task/activity or milestone that must start before a succeeding task/activity or milestone can finish.

2.4.1.8 <u>Total Float/Slack</u>. The amount of time a task/activity or milestone can slip before it delays the contract or project finish date.

2.4.1.9 <u>Free Float/Slack</u>. The amount of time a task/activity or milestone can slip before it delays any of its successor tasks/activities or milestones.

2.4.1.10 <u>Lag</u>. An interval of time that must occur between a predecessor and successor task/activity or milestone. Since negative time is not demonstrable, negative lag is not encouraged. (Note: Lag should not be used to manipulate float/slack or constrain schedule.)

2.4.1.11 <u>Early Start (ES)</u>. The earliest start date a task/activity or milestone can begin the precedence relationships. A computer-calculated date.

2.4.1.12 Early Finish (EF). The earliest finish date a task/activity or milestone can end. A computer-calculated date.

2.4.1.13 Late Start (LS). The latest start date a task/activity or milestone can start without delaying the contract or project target completion date. A computer-calculated date.

2.4.1.14 Late Finish (LF). The latest date a task/activity or milestone can finish without delaying the contract or project target completion date. A computer-calculated date.

2.4.1.15 Critical Path. A sequence of discrete tasks/activities in the network that has the longest total duration through the contract or project. Discrete tasks/activities along the critical path have the least amount of float/slack. The critical path and near-critical paths (reporting requirements for near-critical paths shall be specified in the CDRL) are calculated by the scheduling software application. The guidelines for critical path and near-critical path reporting are as follows:

2.4.1.15.1 Methodology. The IMS software application computes a critical path and near-critical paths based on precedence relationships, lag times, durations, constraints, and status. Artificial constraints and incorrect, incomplete, or overly constrained logic shall be avoided because they can skew the critical path and near-critical paths.

2.4.1.15.2 Identification. The critical path shall be easily identified.

2.4.1.16 Constraints. Limits applied to network start and finish dates (e.g., "finish no later than"). (Note: Certain types of constraints should be used judiciously because they may impact or distort the network critical path.)

2.4.1.17 Current Schedule. The IMS reflects the current status and forecast. It includes forecasted starts and finishes for all remaining tasks/activities and milestones. Significant variances to the baseline schedule shall be explained in the periodic analysis. Thresholds for reporting shall be specified in the CDRL.

2.4.1.18 Baseline Schedule. Baseline dates in the IMS shall be consistent with the baseline dates in the PMB for all work packages, planning packages, and control accounts (if applicable). The guidelines for maintaining the baseline schedule are as follows:

2.4.1.18.1 Schedule Changes. Changes to the schedule shall be baselined when incorporated into the schedule.

2.4.1.18.2 Baseline Schedule Changes. Changes to the baseline schedule shall be made in accordance with the contractor's EVM process. Any movement of contractual milestones in the baseline schedule shall be derived only from either authorized contract changes or an approved over target schedule.

2.4.1.19 Schedule Progress. The IMS shall reflect actual progress and maintain accurate start and finish dates for all tasks/activities and milestones. The guidelines for reflecting schedule progress are as follows:

2.4.1.19.1 Actual Start and Finish Dates. Actual start and actual finish dates shall be recorded in the IMS. Actual start and actual finish dates, as recorded, shall not be later than the status date.

2.4.1.19.2 <u>Progress Line</u>. The progress line depicted in a Gantt chart shall be applied to the current schedule.

2.4.1.20 <u>Retention of Data for Completed Tasks/Activities</u>. Historical performance on completed tasks/activities shall be maintained electronically for analytical use. Historical performance shall be maintained at the time of key program events (Integrated Baseline Review, Critical Design Review, etc.) for all critical tasks/activities. Data to be retained includes logic, actual and baseline durations, actual and baseline start and finish dates, and the three-point estimates that were used before the task/activity started.

2.4.1.21 <u>External Dependencies</u>. The IMS shall identify significant external dependencies that involve a relationship or interface with external organizations, including all Government furnished items (e.g., decisions, facilities, equipment, information, data, etc.). The determination of significant shall be agreed to by the Government and contractor and shall be defined and documented in the CDRL. The required or expected delivery dates shall also be identified in the IMS.

2.4.1.22 <u>Schedule Margin</u>. A management method for accommodating schedule contingencies. It is a designated buffer and shall be identified separately and considered part of the baseline. Schedule margin is the difference between contractual milestone date(s) and the contractor's planned date(s) of accomplishment.

2.4.1.23 <u>Schedule Risk Assessment</u>. A schedule risk assessment predicts the probability of project completion by contractual dates. Three-point estimates shall be developed for remaining durations of remaining tasks/activities that meet any of the following criteria: (1) critical path tasks/activities, (2) near-critical path tasks/activities (as specified in the CDRL), (3) high risk tasks/activities in the program's risk management plan. These estimates include the most likely, best case, and worst case durations. They are used by the contractor to perform a probability analysis of key contract completion dates. The criteria for estimated best and worst case durations shall be applied consistently across the entire schedule and documented in the contractor's schedule notes and management plan. The guidelines for estimates are as follows:

2.4.1.23.1 <u>Most Likely Estimate</u>. Schedule durations based on the most likely estimates.

2.4.1.23.2 <u>Best/Worst Case Estimates</u>. Best and worst case assumptions shall be disclosed.

The contractor schedule risk assessment shall explain changes to the critical path, margin erosion, and mitigation plans. It shall be incorporated into the contractor's program risk management process. The schedule risk assessment shall be submitted as specified in the CDRL and prior to the Integrated Baseline Review. The risk analysis may be performed within the IMS or within a separate risk tool as appropriate based on the capability of the automated scheduling tool.

2.4.1.24 <u>User Defined Fields</u>. All user defined fields in the IMS shall be identified by providing a mapping of all fields used in the scheduling software application.

2.4.1.25 <u>Reserved Fields</u>. The Government may reserve some fields and/or require the contractor to use certain fields for specific information. The requirement for reserved fields shall be specified in the CDRL.

2.4.1.26 <u>Calendar</u>. The arrangement of normal working days, together with non-working days, such as holidays, as well as special work days (i.e., overtime periods) used to determine dates on which project work will be completed.

2.5 <u>Monthly Analysis</u>. Monthly analysis is a monthly assessment of schedule progress to date and includes changes to schedule assumptions, variances to the baseline schedule, causes for the variances, potential impacts, and recommended corrective actions to minimize schedule delays. The analysis shall also identify potential problems and an assessment of the critical path and near-critical paths. Thresholds for reporting significant variances to the baseline schedule and near-critical paths shall be specified in the CDRL. If a CPR Format 5 is required, the monthly analysis shall be submitted to the procuring activity prior to or concurrently with the CPR Format 5.

END OF DI-MGMT-81650

CONTRACT DATA REQUIREMENTS LIST (CDRL)

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category (Check appropriate one) TDP ☐ TM ☐ Other ☐		
D. System/Item AIRNAV Modules 1 and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor		

1. Data Item No. 007	2. Title of Data Item System Test Plan (STP)	3. Subtitle

4. Authority N/A	5. Contact Reference TPWS 6.0	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Each Module	11. As of Date (AOD)

12. Date of First Submission	See 14	13. Date of Subsequent Submission	See 14

14. REMARKS:

Due 30 Days prior to contractor test event.

Government comments due 20 DA contractor initial delivery.

Final Version 10 DA Government comments.

15. Distribution

a. Addressee	b. Draft Copies	c. Final Copies Reg.	Final Copies Repro
COTR			1
COR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. **Contract Line Item No..** Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. **Exhibit.** Exhibit identifier for this CDRL item.

C. **Category.** TDP, TM, or Other.

D. **System/Item.** System, item, project designator or name, or title of services being acquired that the data will support.

E. **Contract/PR No.** Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. **Contractor.** Contractor's name.

G. **Prepared by.** Preparer's organization responsible for preparing the CDRL.

H. **Date.** Date the form was prepared.

I. **Approved by.** Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. **Date.** The date the CDRL was approved.

1. **Data Item No.** The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. **Title of Data Item.** The title of the Data Item Description (DID) cited in item 4.

3. **Subtitle.** Further identification of the data item to supplement the title, if required.

4. **Authority (Data Acquisition Document No.)** DID identification number where detailed preparation instructions are provided.

5. **Contract Reference.** The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. **Requiring Office.** The technical office having responsibility for ensuring the technical adequacy of the data.

7. **DD 250 Required.**

8. **APP Code.** Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. **Distribution Statement Required.**

10. **Frequency.** The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. **As of Date.** Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. **Date of First Submission.** Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See Item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. **Date of Subsequent Submission.** Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. **Remarks.** Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. **Distribution.** Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. **Total.** Total number of draft and final (regular/reproducible) copies required.

17. **Price Group.** Not used.   18. **Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category *(Check appropriate one)*
		TDP ☐ TM ☐ Other ☐

D. System/Item	E. Contract/PR No.	F. Contractor
AIRNAV Modules 1 and 2	DTFAAC-08-C-00000	

1. Data Item No. 008	2. Title of Data Item Software Test Report (STR)	3. Subtitle

4. Authority N/A	5. Contact Reference PWS 6.0	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Each Module	11. As of Date (AOD)

12. Date of First Submission See 14	13. Date of Subsequent Submission See 14	15. Distribution

14. REMARKS:	15. Distribution

14. REMARKS:

20 DA contractor test event.

Government comments due 15 DA contractor initial delivery.

Final Version due 15 DA Government comments.

a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
COR			1
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. **Contract Line Item No..** Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. **Exhibit.** Exhibit identifier for this CDRL item.

C. **Category.** TDP, TM, or Other.

D. **System/Item.** System, item, project designator or name, or title of services being acquired that the data will support.

E. **Contract/PR No.** Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. **Contractor.** Contractor's name.

G. **Prepared by.** Preparer's organization responsible for preparing the CDRL.

H. **Date.** Date the form was prepared.

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J. **Date.** The date the CDRL was approved.

1. **Data Item No.** The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. **Title of Data Item.** The title of the Data Item Description (DID) cited in item 4.

3. **Subtitle.** Further identification of the data item to supplement the title, if required.

4. **Authority (Data Acquisition Document No.)** DID identification number where detailed preparation instructions are provided.

5. **Contract Reference.** The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. **Requiring Office.** The technical office having responsibility for ensuring the technical adequacy of the data.

7. **DD 250 Required.**

8. **APP Code.** Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. **Distribution Statement Required.**

10. **Frequency.** The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

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CODE	FREQUENCY	CODE	FREQUENCY
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See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

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12. **Date of First Submission.** Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		

The "N" is assigned a value indicating the number of days, e.g., 30 DAC

13. **Date of Subsequent Submission.** Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. **Remarks.** Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

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16. **Total.** Total number of draft and final (regular/reproducible) copies required.

17. **Price Group.** Not used.   18. **Estimated Total Price.** Not used.

| A. Contract line Item No.
001, 002 | B. Exhibit
A | C. Category *(Check appropriate one)*
TDP ☐　　　TM ☐　　　Other ☐ | | |
| D. System/Item
AIRNAV Modules 1 and 2 | E. Contract/PR No.
DTFAAC-08-C-00000 | F. Contractor | | |

| 1. Data Item No.
009 | 2. Title of Data Item
Operations Manuals (OM) | | 3. Subtitle | |
| 4. Authority
N/A | 5. Contact Reference
PWS 6.0 | | 6. Requiring Office
AVN –160 (AJW-326) | |

| 7. DD 250 Req'd
N/A | 8. APP Code
A | 9. Distribution Statement Required | 10. Frequency
Each module | 11. As of Date (AOD) |

| 12. Date of First Submission　See 14 | 13. Date of Subsequent Submission　See 14 | 15. Distribution |

14. REMARKS:	a. Addressee	b. Draft Copies	c. Final Copies	
			Reg.	Repro
Final Version due 30 DA Initial Operational Capability (IOC). OM shall be in electronic format bundled with the AIRNAV software. Government comments due 30 DA contractor initial delivery Final Version 15 DA Government comments.	COTR			1
	16. Total			

| G. Prepared By: | H. Date | I. Approved By | J. Date |

| 17. Price Group | 18. Estimated Total Price |

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

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5. **Contract Reference.** The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. **Requiring Office.** The technical office having responsibility for ensuring the technical adequacy of the data.

7. **DD 250 Required.**

8. **APP Code.** Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. **Distribution Statement Required.**

10. **Frequency.** The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. **As of Date.** Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. **Date of First Submission.** Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. **Date of Subsequent Submission.** Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. **Remarks.** Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. **Distribution.** Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. **Total.** Total number of draft and final (regular/reproducible) copies required.

17. **Price Group.** Not used.   18. **Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

Page 1 of

A. Contract line Item No.	B. Exhibit	C. Category *(Check appropriate one)*		
001, 002	A	TDP ☐	TM ☐	Other ☐

D. System/Item	E. Contract/PR No.	F. Contractor
AIRNAV Modules 1 and 2	DTFAAC-08-C-00000	

1. Data Item No.	2. Title of Data Item	3. Subtitle
010	System Requirements Document (SRD)	

4. Authority	5. Contact Reference	6. Requiring Office
N/A	PWS 6.0	AVN –160 (AJW-326)

7. DD 250 Req'd	8. APP Code	9. Distribution Statement Required	10. Frequency	11. As of Date (AOD)
N/A	A		Each Module	

12. Date of First Submission	13. Date of Subsequent Submission	15. Distribution
See 14	See 14	

14. REMARKS:	15. Distribution			
	a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
Due 10 DP to commencement of development (software coding).	COR			1
Government comments due 20 DA contractor initial submission.	COTR			1
Final Version due 20 DA Government comments.				
	16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.   **18. Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category *(Check appropriate one)* TDP ☐ TM ☐ Other ☐		
D. System/Item AIRNAV Module 1 and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor		

1. Data Item No. 011	2. Title of Data Item Software Design Document (SDD)	3. Subtitle

4. Authority N/A	5. Contact Reference PWS 6.0	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Each Module	11. As of Date (AOD)

12. Date of First Submission See 14	13. Date of Subsequent Submission See 14	15. Distribution			

14. REMARKS:	a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
Due 50 DA contract award.				
	COR			1
Government comments due 20 DA contractor initial delivery.				
	COTR			1
Final Version due 20 DA Government comments.				
	16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

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1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes			
CODE	**FREQUENCY**	**CODE**	**FREQUENCY**
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes			
Code	**Definition**	**Code**	**Definition**
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.　　　　　　　　　**18. Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category *(Check appropriate one)* TDP ☐ TM ☐ Other ☐

D. System/Item AIRNAV Modules 1 and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor

1. Data Item No. 012	2. Title of Data Item Interface Design Document (IDD)	3. Subtitle

4. Authority N/A	5. Contact Reference PWS 6.0	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Each Module	11. As of Date (AOD)

12. Date of First Submission See 14	13. Date of Subsequent Submission See 14

14. REMARKS:

30 DP to commencement of interface development.

Government comments due 20 DA contractor initial delivery.

Final Version 20 DA Government comments.

15. Distribution			
a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
COR			1
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes			
CODE	**FREQUENCY**	**CODE**	**FREQUENCY**
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes			
Code	**Definition**	**Code**	**Definition**
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.   **18. Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

A. Contract line Item No.	B. Exhibit	C. Category *(Check appropriate one)*		
001, 002	A	TDP ☐	TM ☐	Other ☐

D. System/item	E. Contract/PR No.	F. Contractor
AIRNAV Modules 1 and 2	DTFAAC-08-C-00000	

1. Data Item No.	2. Title of Data Item	3. Subtitle
013	Change Control Plan (CCP)	

4. Authority	5. Contact Reference	6. Requiring Office
N/A	PWS 6.0	AVN –160 (AJW-326)

7. DD 250 Req'd	8. APP Code	9. Distribution Statement Required	10. Frequency	11. As of Date (AOD)
N/A	A		Each Module	

12. Date of First Submission	13. Date of Subsequent Submission	15. Distribution
See 14	See 14	

14. REMARKS:

40 DA contract award.

Government comments due 10 DA contractor initial delivery.

Final Version due 5 DA Government comments.

a. Addressee	b. Draft Copies	c. Final Reg.	Copies Repro
COR			1
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes			
CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
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OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in Item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in Item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes			
Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.   **18. Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

Page 1 of

A. Contract line Item No. 001, 002	B. Exhibit A	C. Category *(Check appropriate one)* TDP ☐ TM ☐ Other ☐

D. System/Item AIRNAV Modules 1 and 2	E. Contract/PR No. DTFAAC-08-C-00000	F. Contractor

1. Data Item No. 014	2. Title of Data Item Software Iteration Plan (SIP)	3. Subtitle

4. Authority N/A	5. Contact Reference PWS 6.0	6. Requiring Office AVN –160 (AJW-326)

7. DD 250 Req'd N/A	8. APP Code A	9. Distribution Statement Required	10. Frequency Each Module	11. As of Date (AOD)

12. Date of First Submission See 14	13. Date of Subsequent Submission See 14

14. REMARKS:

Due 45 DA contract award.

Government comments due 10 DA contractor initial delivery.

Final Version due 5 DA Government comments.

15. Distribution

a. Addressee	b. Draft Copies	c. Final Reg.	Copies Repro
COR			1
COTR			1
16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. Contract Line Item No.. Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. Exhibit. Exhibit identifier for this CDRL item.

C. Category. TDP, TM, or Other.

D. System/Item. System, item, project designator or name, or title of services being acquired that the data will support.

E. Contract/PR No. Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. Contractor. Contractor's name.

G. Prepared by. Preparer's organization responsible for preparing the CDRL.

H. Date. Date the form was prepared.

I. Approved by. Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. Date. The date the CDRL was approved.

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1. Data Item No. The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. Title of Data Item. The title of the Data Item Description (DID) cited in item 4.

3. Subtitle. Further identification of the data item to supplement the title, if required.

4. Authority (Data Acquisition Document No.) DID identification number where detailed preparation instructions are provided.

5. Contract Reference. The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. Requiring Office. The technical office having responsibility for ensuring the technical adequacy of the data.

7. DD 250 Required.

8. APP Code. Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. Distribution Statement Required.

10. Frequency. The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes			
CODE	FREQUENCY	CODE	FREQUENCY
ANNLY	Annually	ASGEN	As generated
ASREQ	As required	BI-MO	Every two months
BI-WE	Every two weeks	CP/RQ	Change pages as required
DAILY	Daily	DFDEL	Deferred delivery
MTHLY	Monthly	ONE/R	One time with revisions
OTIME	One time (does not include draft submissions	QRTLY	Quarterly
R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. As of Date. Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. Date of First Submission. Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes			
Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		
The "N" is assigned a value indicating the number of days, e.g., 30 DAC			

13. Date of Subsequent Submission. Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. Remarks. Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. Distribution. Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. Total. Total number of draft and final (regular/reproducible) copies required.

17. Price Group. Not used.   **18. Estimated Total Price.** Not used.

CONTRACT DATA REQUIREMENTS LIST (CDRL)

A. Contract line Item No.	B. Exhibit	C. Category (Check appropriate one)		
001	A	TDP ☐	TM ☐	Other ☐

D. System/Item	E. Contract/PR No.	F. Contractor
AIRNAV Module 1 and 2	DTFAAC-08-C-00000	

1. Data Item No.	2. Title of Data Item	3. Subtitle
015	AIRNAV Module Prototype	

4. Authority	5. Contact Reference	6. Requiring Office
N/A	PWS 6.0	AVN –160 (AJW-326)

7. DD 250 Req'd	8. APP Code	9. Distribution Statement Required	10. Frequency	11. As of Date (AOD)
N/A	A		Each Module	

12. Date of First Submission	13. Date of Subsequent Submission	15. Distribution
See 14	See 14	

14. REMARKS:	15. Distribution			
	a. Addressee	b. Draft Copies	c. Final Copies Reg.	Repro
75 DA contract award. Government comments due 10 DA contractor initial delivery. Final prototype due 15 DA Government comments.	COR			1
	COTR			1
	16. Total			

G. Prepared By:	H. Date	I. Approved By	J. Date

17. Price Group	18. Estimated Total Price

INSTRUCTIONS FOR COMPLETING FAA Template No. 59 (6/98)
(Mark Not Applicable sections as N/A)

A. **Contract Line Item No..** Contract Line Item Number (CLIN) associated with this Contract Data Requirements List (CDRL).

B. **Exhibit.** Exhibit identifier for this CDRL item.

C. **Category.** TDP, TM, or Other.

D. **System/Item.** System, item, project designator or name, or title of services being acquired that the data will support.

E. **Contract/PR No.** Procurement Instrument Identification Number (PIIN) (i.e., the contract number, the Purchase Request (PR) number, the screening Information Request (SIR) number, or other appropriate designator.

F. **Contractor.** Contractor's name.

G. **Prepared by.** Preparer's organization responsible for preparing the CDRL.

H. **Date.** Date the form was prepared.

I. **Approved by.** Office responsible for approving the CDRL. The approving official's signature appears on the last page of exhibit.

J. **Date.** The date the CDRL was approved.

1. **Data Item No.** The 4-character Exhibit Line Item Number (ELIN). The first position consists of the exhibit identifier and the remaining positions are assigned sequentially.

2. **Title of Data Item.** The title of the Data Item Description (DID) cited in item 4.

3. **Subtitle.** Further identification of the data item to supplement the title, if required.

4. **Authority (Data Acquisition Document No.)** DID identification number where detailed preparation instructions are provided.

5. **Contract Reference.** The specific paragraph number of the applicable contractual document that contains the tasking that generates a requirement for the data item. Normally, this will be a Statement of Work (SOW) paragraph.

6. **Requiring Office.** The technical office having responsibility for ensuring the technical adequacy of the data.

7. **DD 250 Required.**

8. **APP Code.** Identification, by entry of an "A," of a requirement for advance written approval prior to final distribution of an item of data. An "A" in this item indicates that one or more draft submittals are required. Item 14 will show length of turn-around time for the contractor to resubmit the data after Government approval/disapproval has been issued.

9. **Distribution Statement Required.**

10. **Frequency.** The frequency of data submittal. Entries in this item are explained in Table 1. If the data is of a recurring type, it is to be submitted at the end of the reporting period established in this item unless otherwise indicated in item 14.

Table 1. Data Submittal Frequency Codes

CODE	FREQUENCY	CODE	FREQUENCY
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R/ASR	Revisions as required	SEMIA	Every six months
WEKLY	Weekly	"N"TIME	Multiple separate submittals (2time, 3time, etc.)
See Item #14	Requirement is described in item #14. Used in lieu of other codes where such are inadequate to define requirement, or used in addition to other codes requiring amplification in item #14.		

11. **As of Date.** Date for cutting off collection of the data. If the data is to be submitted multiple times, a numeral will be entered to indicate the number of calendar days prior to the end of the reporting period, established in item 10, that data collection will be cut off. For example, "15" would place the "as of date" for the data at 15 days before the end of the month, quarter, or year, depending upon the frequency established in item 10; a "0 or blank" would place the "as of" date at the end of each month, quarter, etc.

12. **Date of First Submission.** Due date for initial data submission. This is normally the postage date or date the data is delivered to the Contracting Officer or keyed to a specific event or milestone, using a code from Table 2.

Table 2. Data Submission Codes

Code	Definition	Code	Definition
ASGEN	As generated	ASREQ	As required
DFDEL	Deferred delivery	"N"DAC	Days after contract award
"N"DACM	Days after contract modification	"N"DARP	Days after reporting period
"N"DARC	Days after receipt of comments	"N"DTC	Days after test completion
NLT	No later than	EOC	End of contract
EOM	End of month	EOQ	End of quarter
See Item #14	Use to indicate requirement is described in item 14. Used in lieu of other codes where such are inadequate to define requirement or used in addition to other codes when amplification is included in item 14.		

The "N" is assigned a value indicating the number of days, e.g., 30 DAC

13. **Date of Subsequent Submission.** Due date(s) for subsequent data submission(s), if data is to be submitted more than once. If submittal is constrained by a specific event or milestone, the constraint will be given using a code from Table 2.

14. **Remarks.** Contains all pertinent information not specified elsewhere and any amplification of other items on this format (e.g., DID tailoring, approva criteria and authority, inspection and acceptance clarification, distributions statements, specific submission instructions, explanation of reproducible copy and delivery requirements, alternative medium for delivery of the data item, etc.)

15. **Distribution.** Addressees and the number of draft and final copies (regular or reproducible) to be provided to each. FAA facility designator and/or office symbols/codes may be used; however, an explanation of these will be provided in the Addressee Listing. When reproducible copies (e.g., magnetic diskettes/tape, vellum, negative, etc.) are required, an explanation will be provided in item 14. If deferred delivery is required, amplification will be given in item 14.

16. **Total.** Total number of draft and final (regular/reproducible) copies required.

17. **Price Group.** Not used.   18. **Estimated Total Price.** Not used.